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The Effect of Capital Structure Changes on Firm Value under Different Risk Levels: Evidence from Jordanian Market

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The Effect of Capital Structure Changes on Firm Value under Different Risk Levels: Evidence from Jordanian Market

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الا مداء

إلى من حفعني للكفاح وكان مدفزا لي لأبلغ النجاج المه من لا يعرف إلا الدب و العطاء الى ما العرير

إلى الرمز و الإنسانة الأعز إلى القلب إلى قرة عيني إلى موطن الأمان و إلى نبع الدنان إلى والدتيى العزيزة

> الى إخوانيى وأخواتيى إلى.....أصدةانيى

أهدي هذا العمل المتواضع

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Contents

Subject	Page
Dedication	I
Acknowledgment	II
Table of Contents	Щ
List of Tables	
List of Figures	VI
Abstract in English	VII
Chapter One: Introduction	
1.1 Introduction	1
1.2 Problem Statement	3
1.3 Importance of the Study	3
1.4 Objective of the Study	5
1.5 Hypotheses of the Study	5
1.6 Limitations of the Study	6
1.7 Structure of the Study	6
Chapter Two: Theoretical Background	
2.1 Stockholder Wealth Maximization	7
2.2 Financing Decision and Cost of Capital	8
2.3 Ways of Changing the Firm's Capital Structure	10
2.3.1 Recapitalization	11
2.3.2 Divestiture and Use of Proceeds	11
2.3.3Financing New Investments	11
2.3.4 Changing Dividend Payout	12
2.4 Capital Structure Theory	12
2.4,1 Trade-off Theory	13
2.4.2 Agency Theory	14
2.4.3 Signaling Theory	16
2.5 Capital Structure Changes, Firm Value and Risk	17
2.6 The Determinants of Capital Structure	19
2.6.1 Company Size	19
2.6.2 Firm's Profitability	20
2.6.3 Firm's Liquidity Position	20
2.6.4 Firm's Growth	20
Chapter Three: Literature Review	
3.1 Empirical Studies	22

Chapter Four : Methodology	
4.1.1 Population of the Study	31
4.1.2 Sample of the Study	31
4.1.3 Data Collection	34
4.2 Measurement of Variables	35
4.2.1 Dependent Variable	35
4.2.1.1 Change in Firm's Market Value	35
4.2.2 Independent Variables	36
4.2.2.1 Change in Firm's Capital Structure	36
4.2.2.2Change in Firm's Profitability	37
4.2.2.3 Change in Firm's Liquidity	38
4.2.2.4 Firm's Growth	39
4.2.2.5 Firm's Size	39
4.3 The Model	40
4.4.1 Hypotheses	41
4.4.2 Test Period	41
Chapter Five : Data Analysis	
5.1 Descriptive Statistics	43
5.2 Testing the Hypotheses of the Study	45
5.2.1 Correlation Analysis	46
5.2.2 Regression Analysis	53
Chapter Six : Result & Recommendation	
6.1 Results	62
6.2 Recommendations	64
References	65
ملخص الدراسة	
Appendices	

List of Tables

建筑 数加	Subject	Page
4.1	Sample Structure	32
4.2	Groups Structure	34
5.1	High Systematic Risk Firms Descriptive Statistics	43
5.2	Medium Systematic Risk Firms Descriptive Statistics	44
5.3	Low Systematic Risk Firms Descriptive Statistics	45
5.4	High Systematic Risk Firms Pearson Correlation Coefficient	47
5.5	Medium Systematic Risk Firms Pearson Correlation Coefficient	49
5.6	Low Systematic Risk Firms Pearson Correlation Coefficient	51
5.7	Variance Inflation Factor	52
5.8	High Systematic Risk Firms ANOVA	54
5.9	High Systematic Risk Firms Coefficients	56
5.10	Medium Systematic Risk Firms ANOVA	57
5.11	Medium Systematic Risk Firms Coefficients	58
5.12	Low Systematic Risk Firms ANOVA	59
5.13	Low Systematic Risk Firms Coefficients	61

List of Figures

	Subject	Page
2.1	Firm Value According to M&	RM Capital Structure 15
	Theory (1963)	1875
		120
	Tilorary. Aar	
		Cult
	121	
•		
	Digitallilorate	
4	180	
·,C	Y	
30,		
Al		

Abstract

"The Effect of Capital Structure Changes on Firm Value under Different Risk Levels: Evidence from Jordanian Market"

By

Mohammad Qassim Mohammad Al-Momani

The objective of this study is to investigate the impact of capital structure changes on firm value in the Jordanian corporations under different levels of systematic-risk. It has sampled 70 non-financial companies listed and traded in Amman Stock Exchange over the period from 1998 to 2004. The firms included in the study were then classified into three groups: firms with high, medium, and low beta. Using an ordinary least square regression to analyze the data, the results indicated that change in firm's capital structure has a statistically significant negative effect on changes in firm's market value for the high-risk and low-risk firms only; the negative relationship reported in this study may suggests that extensive use of debt for high-risk and low-risk firms affects firm's market value negatively and that these firms are not able to realize the main benefit from using debt financing. The study recommends that the non-financial Jordanian companies, with respect to their systematicrisk, should take into consideration the main factors that are found significant by the study to affect their market values.

CHAPTER ONE

AarmoukUniversity

INTRODUCTION

1.1 Introduction

The most important objective of any management is a setting of clearly defined objectives for the firm. Above all, management must quantify these objectives, so that the company performance can be checked against pre-set standards.

The normative objective underlying a corporate financial management theory is to maximize stockholders' wealth. Management is also motivated to achieve other objectives, some of which are maximizing earning per share, maximizing sales and market share, being a leading marketer of strong consumer brands, and maintain a strong financial position.

Firms achieve the goal of stockholders' wealth maximization through mixing the permanent sources of funds used by them. The capital structure decision is a significant managerial decision, which influences the risk and return of the investments. The company will have to plan its capital structure at the time of its establishment. Whenever the company needs to change its capital structure, it involves a capital structure decision because it has to determine the way of capital structure changes.

The firm's capital structure is a mix of equity rights and debt in the financing of capital. It defines as the total debt ratio which is the ratio of total debt to total assets. Therefore, the change in total debt ratio reflects the change in capital structure. The firm's market value reflects what investors believe the firm is worth; calculated by multiplying the number of shares outstanding by the current market price of a firm's shares. The firm's systematic-risk, also called market risk, defines as a risk common to a particular sector or country. Often refers to a risk resulting from a particular "system" that is in place, such as the regulator framework for monitoring of financial institutions.

When a firm changes its capital structure, it actually changes the relative position and the market values of its capital suppliers' securities holdings. Accordingly, to the extent the capital suppliers are interested in their securities' market value, the firm's market value changes. These changes may result in changes in the degree of systematic-risk the firm is exposed to. This shows the necessity to examine the impact of capital structure changes on firm value under different levels of systematic-risk.

This study investigates the relationship between capital structure changes and firm value under three different levels of systematic-risk; high, medium, and low for all non-financial Jordanian companies over the period from 1998 to 2004.

1.2 Problem Statement

Some of Jordanian corporations face an accounting obstacles procedure, such as dissimilarity in financial statement computations that is required by insurance and banking sectors.

1.3 Importance of the Study

The importance of this study comes from the following points:

- 1- The importance of this study stems from the fact that it will be the first research about examining the impact of capital structure changes on firm value under different risk levels in the Jordanian non-financial corporations.
- 2- This study presents one of the useful of such studies, examining the relationship between capital structure and firm value in the Jordanian market, to corporate managers when they need to plan for some changes in capital structure and its determinants, and at the same time, explore the effect of those changes on the firm's market value.
- 3- The results of other studies, examining the relationship between capital structure and firm value in the Jordanian market, have mixed up the effect of the risk factor. This

study is important since it differentiates between high-risk, medium-risk, and low-risk securities.

4- This study is important since it helps in analyzing the recent trends in capital structure changes and firm's value of Jordanian non-financial corporations.

1.4 Objective of the Study

This study aims to empirically investigate the impact of capital structure changes on firm value under different levels of systematic-risk for all non-financial Jordanian corporations over the period spanning from 1998 to 2004.

1.4 Hypotheses of the Study

The hypotheses of this study are stated as follows:

-For the high systematic-risk firms group,

 $\mathbf{H}_{\mathbf{0}}$: There is no relationship between capital structure changes and firm value.

H_A: There is a relationship between capital structure changes and firm value.

-For the medium systematic-risk firms group,

H₀: There is no relationship between capital structure changes and firm value.

 $\mathbf{H}_{\mathbf{A}}$: There is a relationship between capital structure changes and firm value.

-For the low systematic-risk firms group,

Ho: There is no relationship between capital structure changes and firm value.

 $\mathbf{H}_{\mathbf{A}}$: There is a relationship between capital structure changes and firm value.

1.5 Limitation of the Study

This study has encountered constraint and restriction such as it is constrained to the non-financial sectors (manufacturing and non-financial service sectors) due to dissimilarity in financial statement computations that is required by the insurance and banking sectors.

1.6 Structure of the Thesis

The thesis is organized as follow:

Chapter two provides theoretical background, chapter three reviews the major empirical studies conducted about the relationship between capital structure changes and firm value, chapter four presents the methodology which was implemented to test the research hypotheses, chapter five analyze the data, and chapter six mainly reported the results of the analysis and suggests some recommendations.

CHAPTER TWO

THEORETICAL

BACKGROUND

2.1 Stockholder Wealth Maximization

Most literature writers agree that the primary objective of the firm should be stockholders wealth maximization. The market value of the firm's common stocks reflects stockholders wealth because the effects of all financial decisions are thereby included.

Maximizing stock price requires several actions, such as:

- Efficient, low-cost plants that produces high quality goods and services at the lowest possible cost.
- 2. The financial management should maintain an optimal capital structure that maximizes stocks market prices of the firm.
- 3. The development of products that consumers want and need, so the profite motive leads to new technology, to new products, and to new jobs.

These actions also are beneficial to soceity at large because successful firms are absolutely necessary for a healthy and productive economy (Weston & Brigham, 1993).

But how the financial management achieve the goal of stockholders wealth maximization?

To answer the above question we should reflect that the maximization of stockholder wealth depends on the tradeoff between risk and profitability. The higher the risk of project, the higher the

expected return should be from the project. Thus, the financial manager must attempt to determine the optimal balance between risk and return that will maximize the wealth of the firm's stockholders. This optimal balance between risk and profitability is frequently called the risk-return tradoff and this could be available through the effective financial decisions (investment and financing decisions) which are made to maximize stockholders wealth. Investment decisions are concerned with the structure of firm investments whether it is short-term investments (current assets) or long-term investments (fixed assets). While the financing decisions are concerned with the firm's capital structure whether it is short-term or long-term financing decisions, and also to determine the mix of debt and equity it desires to finance its investments inorder to maximize its market value.

2.2 Financing Decision and Cost of Capital

Each source of financing has a cost which is called a component-cost of capital. From an investor's prospective, these component costs are required rates of returns. This required rate of return is the minimum rate of return required by the investor which should be at least equal the cost rate. Differences between investor-required rates of return and the cost of capital to the company can be

explained by transactions costs and tax effects. The weighted average cost of capital is the weighted average of the company's after-tax component capital costs.

The capital structure choice has long been an issue of great interest in the corporate finance literature. This interest is due to the fact that the mix of funds affects the cost and availability of capital and thus, firms' investment decisions. Companies normally prefer debt to finance their assets because interest payable is tax deductible in the computation of profits for tax purposes. Using more debt raises the risk of the firm's earning stream, but a higher proportion of debt generally leads to a higher expected rate of return. A great deal of controversy has developed over whether the capital structure of a firm as determined by its financing decision, affects its cost of capital. Traditionalists argue that the firm can lower its cost of capital and increase market value per share through using leverage. However, as the company levers up itself and becomes increasingly risky, financial lenders begin to charge higher interest rates on debt. Beyond this point the cost of capital begins to rise. According to the traditionalists that point denotes the optimal capital structure.

The optimal capital structure is the one that strikes a balance between risk and return to achieve the goal of minimizing the weighted average cost of capital and maximizing stock price (Glean, 2002). The optimal capital structure might change over time as conditions vary, but at any given time the firm's management has a specific capital structure in mind and individual financing decisions should be consistent with this target.

Therefore, any changes in the composition of the firm's investments or financial structure will change the weighted average cost of capital and consequently the firm market value.

2.3 Ways of Changing the Firm's Capital Structure

If the actual proportion of debt is below the target, new funds will be raised by issuing debt, whereas if the proportion of debt is above the target, stock probably will sold to bring the firm back in line with the target ratio.

Firms can change their debt ratios in four ways. They can recapitalize existing investments, using new debt to reduce equity or new equity to retire debt. They can divest existing assets, and use the cash to reduce equity or retire debt. They can invest in new projects, and finance these investments disproportionately with debt or equity. Finally, they can increase or decrease the proportion of their earnings that forms dividend to stockholders, in the form of dividends or stock buybacks.

2.3.1 Recapitalization

The simplest and often the quickest way to change a firm's financial mix is to change the way existing investments are financed. Thus, an underlevered firm can increase its debt ratio by borrowing money and buying back stock or replacing equity with debt of equal market value.

2.3.2 Divestiture and Use of Proceeds

Firms can also change their debt ratios by selling assets and using the cash they receive from the divestiture to reduce debt or equity. Thus, an underlevered firm can sell some of its assets and use the proceeds to repurchase stock or pay large dividends. While this action reduces the equity outstanding of the firm, it will increase the debt ratio of the firm only if the firm already has some debt outstanding. An overlevered firm may choose to sell assets and use the proceeds to retire some of the outstanding debt and reduce its debt ratio.

2.3.3 Financing New Investments

Firms can also change their debt ratios by financing new investments disproportionately with debt or equity. If they use a much higher proportion of debt in financing new investments than their current debt ratio, they will increase their debt ratio. Conversely, if

they use a much higher proportion of equity in financing new investments than their existing equity ratio, they will decrease their debt ratio.

2.3.4 Changing Dividend Payout

A firm can change its debt ratio by changing the proportion of its earnings those dividends to stockholders in each period. Increasing the proportion of earnings paid out in dividends (the dividend payout ratio) or buying back stock each period will increase the debt ratio for two reasons. First, the payment of the dividends or buying back stock will reduce the equity in the firm; holding debt constant, this will increase the debt ratio. Second, paying out more of the earnings to stockholders increases the need for external financing to fund new investments; if firms fill this need with new debt, the debt ratio will be increased even further. Decreasing the proportion of earnings returned to stockholders will have the opposite effects.

2.4 Capital Structure Theories

Capital structure theory was developed in what has been called the most influential set of financial papers ever puplished by Professors Franco Modigliani and Merton Miller (1958), they proved – under a very restrictive set of assumptions, including that there exist no income tax, no brokerage costs, and no bankruptcy costs – that

the inclusion of more debt in capital structure will not increase the value of the firm. In 1963, MM published a second article incorporated corporate income tax, they conclude that due to the tax deductibility of interest on corporate debt, a firm's value rises continuously as more debt is used, and hence its value will be maximized by financing almost with debt. Because several of the assumptions outlined by (MM) are unrealistic, (MM) position was only the beginning of capital structure research. Subsequent researchers extended the basic theory by relaxing the assumptions.

2.4.1 Trade-off Theory

This theory derives indirectly from the work of Miller and Modigliani (1958). The trade-off theory of capital structure argues that value-maximizing firms attain an optimal capital structure by balancing the corporate tax benefits of debt against the (income tax, bankruptcy, or agency) costs associated with debt. The obligation to pay principal and interest on debt puts pressure on a firm since failure to meet the obligation results in financial distress. The ultimate financial distress is bankruptcy, in which case, the ownership of the firm's assets is transferred to the bondholders. Costs of financial distress offset the advantages of debt at some point. The

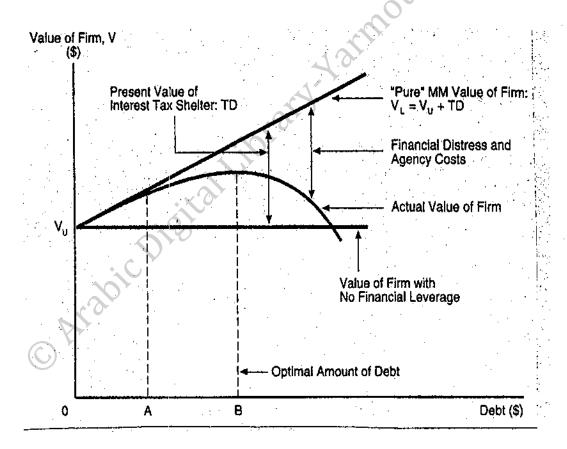
higher the firm financial leverage (fixed costs such as principal and interest payments), the greater the probability that a decline in earnings which will lead to financial distress. Further, the more prevailing financial distress is for a firm, the higher their financial distress costs. Overall, when a firm's probability of financial distress rises, the value of the firm declines and its cost of capital increases.

2.4.2 Agency Theory

Jensen and Meckling (1976) introduce agency costs as another explanation for optimal capital structure. Agency costs of debt only arise when there is a risk of default. If debt is totally free of default risk, debtholders are not concerned about the income, value or the risk of the firm. However if the possibility of default exists, shareholders can gain at the expense of debtholders. For instance, after issuing debt, a firm may decide to restructure its assets, selling off those with low business risk and acquiring assets that are more risky and thus have a higher possibility of default but also have higher expected returns. If things work out well, then the stockholders will get most of the benefit, but if not, then much of the loss will fall on the bondholders, who will have already agreed to be anticipated with a lower interest rate than the risk level of the firm presupposes. Nevertheless, the optimal capital structure of the firm will be formed

at this particular level where the benefits of the debt that can be received by the shareholders balance with the costs of debt imposed by the debtholders.

The following figure illustrates the relationship between rising debt levels and financial distress/agency costs:



2.1 Firm Value According to M&M Capital Structure Theory (1963)

The graph begins at a point with no debt, the value of the firm increases as debt is added. The incremental gains from additional debt begin decreasing due to the growing possibility of financial distress and agency costs. The optimal capital structure occurs when the present value of the tax saving from an additional dollar of debt equals the increase in the present value of expected bankruptcy (point B).

2.4.3 Signaling Theory

One of the MM's assumptions is that investors and managers have the same information about the firm's prospects, which is called symmetric information. However, managers often have better information than outside investors, this is called asymmetric information, and it has an important effect on capital structure.

In asymmetric information, firms with extremely good prospects prefer to finance with debt because they would not have had to share profit of the new investment with new investors. Whereas, firms with poor prospects like to finance with stocks which would mean bringing in new investors to share the losses. Therefore, the announcement of stock offering of a mature firm that has financing alternatives is taken

as a signal that the firm's prospects as seen by its management are not bright.

In normal times, maintaining a reserve borrowing capacity which can be used in the event that some especially good investment opportunity comes along. This means that firms in normal times should use less debt than is suggested by the trade-off theory.

As a result, these capital structure theories can be combined to reason the behavior of firms. First, firms will employ some debt financing due to the tax deductibility of interest. Next, there is a limit to the amount of debt usage a firm will have because of financial distress and agency costs. Also, firms may maintain a reserve so they can take advantage of good investment opportunities without needing to issue new stock (asymmetric information). The empirical works related to these theories revealed that firms change its capital structure to make certain changes in their market values.

2.5 Capital Structure Changes, Firm Value and Risk

The relationship between firm's market value and risk can be related to the agency theory. The firm's decisions to change its capital structure can result in an agency problem, which might increase the degree of the firm's risk. According to the agency theory,

stockholders capture investment returns above those required to service debt repayments and other liabilities and at the same time have limited liabilities when returns are insufficient. Therefore, stockholders prefer high-risk projects, in conflict with bondholders' preferences (Eldomiaty, 2004).

Green (1984) argues that convertible debt can circumvent this agency problem (or asset substitution problem) that arises when firms accept projects that are riskier than bondholders would prefer. His work indicates that a firm can make certain changes to its capital structure to deal with some agency problems. Masulis (1980) studied the effects of changing firm's capital structure on stock prices. He provides evidence that suggests that announcements of debt-for-equity exchange offers lead to abnormal stock increases, while equity-for-debt- exchange offers lead to abnormal stock price decreases. Such findings indicate that changes in capital structure affect the firm's systematic risk. This shows the necessity for examining the effects of risk levels when studying the relationship between changes in capital structure and market value in this study.

2.6 The Determinants of Capital Structure

The relevant literature on the determinants of capital structure provides number of factors that have been examined. (Al-Najar, 2003) founds that the firm's profitability, tax, liquidity, tangibility, dividends, size, and growth rate determine the firm's capital structure choice. (Miguel, 2001) founds that the investment, cash flows, and a financial distress cost affects the firm's debt policy. (Jayant, Noe, and Ramirez, 1991) concludes that the firm's risk, assets structure, capital expenditure, and advertising costs determine the firm's capital structure. (Titman and Wessels, 1988) find that there is a relationship between debt levels and the uniquess of business, non-debt tax shields, volatility, transactions costs, and firm's growth.

Therefore, there are several factors that affect the firms' capital structure decisions:

2.6.1 Company Size

Larger firms tend to be more diversified and less prone to bankruptcy (Rajan and Zingales, 1995). They are also expected to incur lower costs in issuing debt or equity. Thus, large firms are expected to have more ability to employ debt in their capital structures than small firms.

2.6.2 Firm's Profitability

Myers and Majluf (1984) argued that as a result of asymmetric information, companies prefer internal sources of finance. In other words, higher profitability companies tend to use lower debt levels and higher retained earnings as a source of finance.

2.6.3 Firm's Liquidity Position

Firm's liquidity position may have a mixed impact on the firm's capital structure decision. First, the higher the liquidity ratio the greater the ability of the firm to use debt due to its ability to meet its short-term obligation. On the other hand, firms with greater liquid assets may use these assets to finance their investments (Ozkan, 2001).

2.6.4 Firm's Growth

The high growth firms have greater future need for funds and also retain more earnings. According to trade-off theory, the retained earnings of high growth firms increase and they issue more debt to maintain the target debt ratio. The same relationship is supported by pecking order theory too. According to this, growth causes firms to shift financing from new equity to debt, as they need more funds to reduce the agency problem (Titman and Wessels, 1988).

These works reflects the importance of examining the effect of O Arabic Digital Library. Varinous University such determinants of capital structure when studying the relationship

CHAPTER THREE

LITERATURE REVIEW

Introduction

This chapter reviews the major studies conducted about the relationship between capital structure changes and firm value.

3.1 Empirical Studies

This section presents the empirical work of others that helps in more understanding of the subject of the study, the followings are relevant articles,

Eldomiaty (2004) examines the relationship between the changes in firm's capital structure and their effects on firm's market value under three different levels of systematic risk; high, medium, and low. The sample consists of 99 firms which they cover fourteen different non-financial industries in Egypt Stock Market (ESE) for the period from 1994 to 2001. The researcher was then divided the firms included in the samlpe into three groups: firms with high, medium, and low beta. The study used a multiple regression approach with the change in the firm's value measured as the number of shares outstanding multiplied by the current closing price at the date of financial statement preparation as a dependent variable. The independent variables are the change in firm's capital structre, the change in firm's profitability, the change in firm's liquidity, firm's growth, firm's size, inaddition to 14 variables cover

relatively the trade-off theory, pecking order theory and free cashflow theory. The main result of the study is that the relationship between capital structure changes and firm value is negative and statistically significant for high-risk firms, while for the low-risk and medium-risk firms it is negative but insignificant.

Oraluck and Ariff (2004) investigated the impact of the relative capital structure on the value of the firm. They used a sample consists of 639 observations taken from companies listed on the Australian Stock Exchange during the period from 1991 to 2003. The study used a multiple regression approach with the firm value proxid by three days Cumulative Average Return (CAR) as a dependent variable. The directional changes in the capital structure relative to the industry median debt ratio are independent dummy variables. The study concluded that there is a significant change in firm's value when the relative capital structure changes by 10-40 percent.

Abbad (2003) examined the impact of capital structure on the profitability and firm value. The sample consists of 25 firms taken from the industrial sector and listed on the Amman Stock Exchange over the

period from 1991 to 2000. Tow multiple regression models were used. The first model was used to investigate the relationship between capital structure and firm value with the value of the firm proxied by market-to-book ratio as a dependent variable. The independent variables are the firm's capital structure, size, corporate tax rate and earning before tax. The researcher founds that there is a positive and significant relationship between the value of the firm and its capital structure. The second model was used to examine the relationship between the firm's profitability and capital structure with the firm's profitability measured by the profit margin ratio as a dependent variable. The independent variables are the firm's capital structure and size. The result is that there is a negative and significant relationship between firm's profitability and capital structure.

Carpentier, L'her and Suret (2002) aimed to analyze the long term relationship between changes in capital structure and the value of the firm for a sample of 243 non-financial French firms over the 1987-1996 period. The study used a multivariate parametric model with the change in firm value proxied by the growth rate of market-to-book ratio as a dependent variable. The independent variable is the change in

leverage. The control variables are the growth rate of total assets and the mean profitability ratio. The researchers use the multiple regression model in two stages, in the first stage they found that there is no significant relationship between changes in leverage and changes in firm's value, in the second stage they included a dummy variable which reflects the reversion towards the target debt ratio as a dummy variable and found that the there is a lack of significant relationship between changes in capital structure with respect to the target ratio and change in the value of the firm.

Kaifeng (2002) empirically examined the influence of capital structure on the company value given different growth opportunities. The sample includes 127 firms incorporated in the Netherlands at the end of March 2001. The researcher used the price to equity ratio to differentiate the sample to high-growth firms and low-growth firms' subsamples. The study applied the multiple regression approach with the firm value measured by Tobin's Q as a dependent variable. The independent variable is total debt to assets ratio. The control variables are pre-tax profit margin ratio, tax rate, capital expenditures ratio and total assets. The regression model is preformed for the two subsamples.

The researcher found that in the low-growth firms subsample the relationship between the capital structure and the value of the firm is positive and significant while in the high-growth firms subsample the relationship is positive but insignificant.

Connell and Servas (1995) aimed to find the relationship between the selection of debt financing or equity financing through studying the value of the firm, financial leverage and stock ownership. They employed samples of 1173 firms in 1976, 1093 firms in 1982 and 830 firms in 1988 which were listed on the New York Stock Exchange (NYSE). They then divided the sample in to two subsamples; high-growth and low-growth firms. The study concluded that the correlation between the value of the firm and leverage is positive for low-growth firms and negative for high-growth firms.

Hatfield, Cheng and Davidson (1994) test the argument suggested by Masulis (1983) which stated that when firms which issue debt are moving towards the industry average of debt ratio from below, the market will react more positively than when the firm is moving away from the industry average. The sample consists of 183 firms which announced a new debt issue for the period from 1981 to 1986. The study classifies firm's leverage ratio, as being above or below their industry average prior to the announcment of debt issued. They concluded that the market does not consider industry averages for leverage as discriminators for firm's financial leverage. They found that there is no significant relationship between firm's debt level and the industry's debt level and these results do not support masulis (1983) argument.

Kim, Chen and Nance (1992) examined the relationship between financial leverage changes and firm value. The sample consists of 68 primary issuances during the period from 1981 to 1982. The sample was then divided into two groups; Group 1 includes firms which are below their optimal financial leverage prior to the security issue, and Group 2 includes firms which are above their optimal financial leverage prior to the security issue. They used an event study methodology where the event is defined as the date the WSJ reports the plan to register for the issuance of a security. The methodology employed was to calculate Cumulative Average Return (CAR) for the event window and then attempt to explain the CARs in a linear regression model

where the independent variable is the change in financial leverage due to the new issue. Seven measures of financial leverage is tested. They found that there is a positive relationship between financial leverage changes and change in stock price for the corporations in Group 1, while for corporations in Group 2 they found a negative relationship between financial structure changes and changes in stock prices.

Pinegar and Lease (1986) examined the impact of preferred-for-common stock exchange offer on firm value for a sample consists of 37 firms listed on the NYSE and the ASE over the period from 1962 to 1980. The researchers used a two-stage regression approach. In the first stage, they used a regression model with the change in firm value proxied by the announcement period return as a dependent variable, the independent variables are the change in preferred stock liquidation values and the dummy variables which reflects the conversion privileges, voting rights, protective covenants and dividend arrearages. In the second stage they substituted the change in the dividends commitments for the change in preferred stock liquidation values. The study founds that a systematic changes in firm value occurs when companies announce preferred-for-common exchange offers.

Masulis (1983) measures the impact of capital structure changes on firm value using a sample of 133 firms Listed on the NYSE and ASE during the period from 1963 to 1978. The study use a multiple regression model with the primary announcement period stock return as a dependent variable and the major independent variables are changes in leverage multiplied by senior security claims outstanding and changes in debt tax-shields. The main result of the study is that both stock prices and firm values are positively related to changes in debt level and leverage.

Sarma and hanumata (1967) the objective of the study was to employ the model of Miller and Modigliani to a non-regulated industry and test the M&M hypothesis on the influence of debt on the value of the firm. The researchers use a sample of 30 engineering companies from the Indian ingineering industry and the years 1962, 1964 and 1965 were selected for the cross-section tests. The study used a multiple regression approach with the value of the firm as a dependent variable. The independent variables are the expected tax-adjusted earnings, the growth rate of tax-adjusted earnings, debt, size and fixed assets. The

researchers used the two-stage least-squares technique. In the first stage they found that there is a positive relationship between the capital structure changes and firm value. While in the second stage the researchers excluded the tax-shield from the value of the firm and concluded that there is no relationship between capital structure and the s M& value of the firm and this conclusion supports M&M hypothesis.

CHAPTER FOUR

DATA &

METHODOLOGY

Introduction

This chapter discusses the methodology used to investigate the impact of capital structure changes on firm value under three different levels of systematic risk for all non-financial companies listed and traded on the Amman Stock Exchange (ASE) over the period from 1998 to 2004. The first section explains the population, sample and data collection. The second section provides a brief explanation about the variables under investigation and their measurements. The third section presents the model specification. The fourth section presents the hypothesis of the study and the test period.

4.1.1 Population of the Study

The population of the study includes all non-financial companies listed and traded on the ASE over the period from 1998 to 2004.

4.1.2 Sample of the Study

The sample of this study consists of the non-financial companies listed and traded on the ASE over the period from 1998 to 2004, and which satisfied these criteria:-

 The selected companies should have maintained their identity over the period from 1997 to 2004.

- The selected companies should have reported their annual accounts over the period from 1997 to 2004.
- Companies that were acquired by another company or merged with another company over the period of the study are excluded from the sample.

According to these criteria, table (4.1) presents the distribution of the sample companies. *Appendix* (1) lists the names of the companies' whole sample.

Table 4.1: Sample Structure

Service sector	24 Firms
Manufacturing sector	46 Firms
Total	70 Firms

The firms included in this study were then divided into three groups according to their risk: firms with high; medium; and low systematic risk respectively (See appendix (2)). For each firm, beta over the test period was considered. Firms' beta was arranged in a descending order. Starting from the first firm with the highest beta, the first group of firms was chosen whose sum of betas equal to the

sum of the whole sample betas divided by three. So were the second and the third groups chosen.

Firm's beta will be measured according to the single-factor model as follows,

$$B_{i} = \underbrace{Cov_{r_{m},r_{i}}}_{\sigma^{2}_{r_{m}}}$$

Where,

B_i: Firm's beta over the test period (Seven years).

Cov r_{m,r_i} : The covariance between the market return (r_m) and the stock return for company i (r_i) .

 $\sigma^2_{r_m}$: The variance of market return.

In order to measure the stock returns, this study follows Roll (1981),

$$\mathbf{r}_{i_{\dagger}} = \frac{SP_{\underline{i_{\dagger}}} - SP_{\underline{i_{\dagger-1}}} + (\underline{Div}_{\underline{i_{\dagger}}})}{SP_{i_{\dagger-1}}}$$

Where,

 $r_{i_{\mathbf{t}}}=\frac{1}{2}$ The stock rate of return for company i in year t.

 $\mathsf{SP}_{(i_t)}$: The closing stock price for company i at the end of year t.

SP i_{t-1}: The closing stock price for company i at the end of year t-1.

Div i, : Dividends for company i in year t.

As a result, table (4.2) presents the distribution of the groups' firms. (See appendix 3,4, and 5 respectively)

Table 4.2: Groups Structure

High systematic risk	7 Firms
Medium systematic risk	12 Firms
Low systematic risk	51 Firms
Total	70 Firms

4.1.3 Data Collection

Data were collected from the following sources:-

Primary Sources

The data related to firms' income statement and balance sheet items were collected from the firms' annual reports. The firms' market value, closing stock price and market return were obtained from the Jordanian shareholding companies guide and Cds published by ASE. The data covers 8 years from 1997 to 2004.

Secondary Sources

The information about the subject of the study was collected from books, articles, journals, and other references that related to the subject of the study and helped in developing hypothesis, modeling and analyzing data.

4.2 Measurement of Variables

Variables of the study are classified into dependent and independent variables. The following section provides a brief explanation of the variables used in the study and their measurements.

4.2.1 Dependent Variable:

The dependent variable is the change in firm's market value.

4.2.1.1 Change in Firm's Market Value (ΔMV)

The market value of the firm defined as the number of common shares outstanding multiplied by the current closing price at the date of financial statement preparation. This variable is to measure the firms' adjustment to a target value; therefore it is measured as a change in firm value. In order to measure the change in firm value, this study follows Eldomiaty (2004),

$\Delta MV_{i_{\uparrow}} = MV_{i_{\uparrow}} - MV_{i_{\uparrow-1}}$

Where,

 ΔMV_{i_1} : The change in market value for company i in year t.

MV i, : The market value for company i in year t.

MV it-1: The market value for company i in year t-1.

(See appendix 3, 4, and 5 respectively.)

4.2.2 Independent Variables:

The independent variables are the change in firms' capital structure, change in firm's profitability, change in firm's liquidity, firm's growth, and firm's size.

4.2.2.1 Change in Firm's Capital Structure (ATDR)

The capital structure is proxid by the total debt ratio which is the ratio of total debt to total assets (Rajan and Zingales, 1995). The signaling effect of debt on firms' market value is measured by taking into account that the amount of changes in market value in a certain period is affected by the amount of changes in debt in the same period (Eldomiaty, 2004). The study essentially follows Eldomiaty (2004) in measuring the change in firm's capital structure,

$$\Delta TDR_{i_{\dagger}} = TDR_{i_{\dagger}} - TDR_{i_{\dagger-1}}$$

Where,

ΔTDR i,: The change in capital structure for company i in year t.

 $\mathsf{TDR}_{i_{\mathsf{t}}}$: The capital structure for company i in year t.

TDR in : The capital structure for company i in year t-1.

(See appendix 3, 4, and 5 respectively.)

Also, the relevant literature provides number of factors that have been examined and founds to affect the firm's debt policy. According to the literature review, some of these variables will be examined in time lag effects to address the dynamic effects of changes in the level of the determinants of firm's capital structure on the firm's market value. Other variables will be measured in a static form as they can not be anticipated, thus, planned for, in advance. These variables are changes in firm's' profitability, changes in firms' liquidity, firms' growth, and firms' size.

4.2.2.2 Change in Firm's Profitability (ΔROA)

The return on assets ratio (ROA) which is the ratio of net income to total assets is used as a proxy of firm profitability (Kaen, 1995). This study follows Eldomiaty (2004) in measuring the change in firm's profitability,

$$\triangle ROA_{i_{\uparrow}} = ROA_{i_{\uparrow}} - ROA_{i_{\uparrow-1}}$$

Where,

ΔROA i,: The change in profitability for company i in year t.

ROA i, : The profitability for company i in year t.

ROA_{i+1}: The profitability for company i in year t-1.

(See appendix 3, 4, and 5 respectively.)

4.2.2.3 Change in Firm's Liquidity (ΔCR)

The current ratio which is the ratio of current assets to current liabilities is used as a proxy of the firms' liquidity position (Ozkan, 2001). In order to measure the change in firm's liquidity, this study follows Eldomiaty (2004),

$$\triangle CR_{i_{\dagger}} = CR_{i_{\dagger}} - CR_{i_{\dagger-1}}$$

Where,

 ΔCR_{i_t} : The change in liquidity for company i in year t.

CR it : The liquidity for company i in year t.

 $CR_{i_{t-1}}$: The liquidity for company i in year t-1.

(See appendix 3, 4, and 5 respectively.)

4.2.2.4 Firm's Growth (GTA)

The growth of total assets measured as a percentage change in total assets (Carpentier, L'her and Suret, 2002) is used in this study.

$$GTA_{i_{\dagger}} = \frac{TA_{i_{\dagger}} - TA_{i_{\dagger-1}}}{TA_{i_{\dagger-1}}}$$

Where,

GTA $_{i_t}$: The growth for company i in year t.

TA i, : The total assets for company i in year t.

TA i,1 : The total assets for company i in year t-1.

(See appendix 3, 4, and 5 respectively.)

4.2.2.5 Firm's Size (SIZE)

Firm size is measured in this study with a natural logarithm of total assets. Chen (2002) and Eldomiaty (2004) are just a few examples of using a natural log of total assets as a proxy for the firm size.

Where,

SIZE i, : The size for company i in year t.

TA it : The total assets for company i in year t.

LN (TA _{i t}): The natural logarithm of total assets for company i year t.

(See appendix 3, 4, and 5 respectively.)

4.3 The Model

To test the hypothesis that capital structure changes do not affect the value of the firm, the following multiple regression model is estimated:

$$\Delta MV_{i_{\uparrow}} = \lambda_{o} + \lambda_{1} \Delta TDR_{i_{\uparrow}} + \lambda_{2} \Delta ROA_{i_{\uparrow}} + \lambda_{3} \Delta CR_{i_{\uparrow}} +$$
$$\lambda_{4}GTA_{i_{\uparrow}} + \lambda_{5}SIZE_{i_{\uparrow}} + \epsilon_{i_{\uparrow}}$$

Where,

 ΔMV_{i_1} . The change in market value for company i in year t.

ΔTDR i, : The change in capital structure for company i in year t.

 \triangle ROA $_{i_t}$: The change in profitability for company i in year t.

 $\Delta CR_{i_{+}}$: The change in liquidity for company i in year t.

 $\mathsf{GTA}_{\,\,i_{\,t}}\,\,$: The growth for company i in year t.

SIZE i, : The size for company i in year t.

 ϵ_{i_t} : Error term.

 λ_i 's : Parameters.

The model is performed for the three groups of firms: the group with high systematic risk firms, the group with medium systematic risk firms, and the group with low systematic risk firms.

4.4.1 Hypotheses of the Study

The hypotheses of this study are stated as follows:

-For the high systematic-risk firms group,

H₀: There is no relationship between capital structure changes and firm value.

 H_{A} : There is a relationship between capital structure changes and firm value.

-For the medium systematic-risk firms group,

 H_0 : There is no relationship between capital structure changes and firm value.

H_A: There is a relationship between capital structure changes and firm value.

-For the low systematic-risk firms group,

H₀: There is no relationship between capital structure changes and firm value.

HA: There is a relationship between capital structure changes and firm value.

4.4.2 Test period

The test period covers seven years from 1998 to 2004.

CHAPTER FIVE

DATA ANALYSIS

Introduction

As it is mentioned earlier, this study attempts to investigate the relationship between capital structure changes and firm value under three different levels of systematic risk; high, medium, and low. The study includes all non-financial companies listed on the Amman Stock Exchange (ASE) over the period from 1998 to 2004.

This study used the change in firm value (Δ MV) as a dependent variable. The independent variables are the change in the firm's capital structure (Δ TDR), change in firm's profitability (Δ ROA), change in firm's liquidity (Δ CR), firm's growth (GTA), and firm's size (SIZE). The Δ is measured as (t) – (t-1) for all variables.

This chapter is divided into two sections. The first section provides the descriptive statistics for the three groups of firms; high, medium, and low systematic risk respectively. The second section explains how the data were analyzed in order to test the hypothesis of the study for each group of firms independently.

5.1 Descriptive Statistics

This section provides the descriptive statistics for the variables used in this study. It includes mean, standard deviation, maximum, and minimum values for each variable.

5.1.1 High Systematic Risk Firms

Table (5-1) shows the descriptive statistics of variables used to examine the relaionship between capital structure changes and firm value for high systematic risk firms. The sample consists of 70 non-financial firms of which 7 firms are the high systematic risk firms. The sample has a 49 observations from 1998-2004.

Table (5-1)
High Systematic Risk Firms
Descriptive statistics

	Mean	Std. Deviation	Maximum	Minimum	
ΔΜV	1819256	6924939	42240000	-2640000	
ΔTDR(%)	-1.42893	12.24575	30.38619	-42.5938	
ΔROA(%)	2.58311	12.77852	44.67297	-22.4196	
ΔCR (Times)	1.980099	11.67353	51.92403	-30.9471	
GTA(%)	7.51725	30.98257	110.3049	-43.2519	
SIZE(Ln)	15.8088	0.806621	17.38692	13.97146	

5.1.2 Medium Systematic Risk Firms

Table (5-2) shows the descriptive statistics of variables used to examine the relaionship between capital structure changes and firm value for medium systematic risk firms. The sample consists of 70 non-financial firms of which 12 firms are the medium systematic risk firms. The sample has an 84 observations from 1998-2004.

Table (5-2)

Medium Systematic Risk Firms

Descriptive statistics

	Mean	Std. Deviation	Maximum	Minimum
ΔMV	13966620	83320125	5.3E+08	-2.8E+08
ΔTDR(%)	1.864378	9.770967	54.70743	-24.0289
ΔROA(%)	0.695322	7.049795	24.13621	-30.0711
ΔCR(Times)	0.041158	3.208037	22.14674	-13.2852
GTA(%)	17.01669	98.28434	888.8121	-39.1566
SIZE(Ln)	16.90548	1.371429	19.87135	14.9082

5.1.3 Low Systematic Risk Firms

Table (5-3) shows the descriptive statistics of variables used to examine the relaionship between capital structure changes and firm value for low systematic risk firms. The sample consists of 70 non-financial firms of which 51 firms are the low systematic risk firms. The sample has a 357 observations from 1998-2004.

Table (5-3)
Low Systematic Risk Firms
Descriptive statistics

	Mean	Std. Deviation	Maximum	Minimum	
ΔΜV	2801753	12812469	78750000	-9.7E+07	
ΔTDR(%)	-1.01971	14.48725	103.0508	-135.45	
ΔROA(%)	0.215359	9.67905	108.0881	-63.887	
ΔCR(Times)	-0.04032	5.984874	51.67551	-46.0245	
GTA(%)	6.176909	26.37992	248.1912	-65.1998	
SIZE(Ln)	16.4534	1.236607	19.93684	13.82011	

5.2 Testing the Hypothesis of the Study

The objective of the study is to examine if there is a relationship between capital structure changes and firm value under different levels of systematic risk.

The research used a Multiple Regression Model in which the change in firm's value is the dependent variable. The independent variables are the change in firm's capital structure, change in firm's profitability, change in firm's liquidity, firm's growth, and firm's size. The model is performed for the three groups; high, medium, and low systematic risk firms.

Since this study interested in examining the relationships between the variables, therefore, the researcher use the Correlation

analysis in order to investigate the relationship between the two variables (capital structure changes and firm value) and also use the Regression Analysis and F test to find the causality relationship between the dependent variable and the independent variables.

5.2.1 Correlation Analysis

This section is concerned with revealing the correlation between the variables of the study. The researcher used the Pearson correlation test which gives an idea about the direction and the strength of the relationship between the variables of the study and how a change in the independent variables affects the dependent variable.

5.2.1.1 High Systematic Risk Firms

Table (5-4) shows the Pearson correlation coefficients between the dependent and independent variables for the high systematic risk firms.

Table (5-4)
High Systematic Risk Firms
Pearson correlation coefficient

		ΔΜV	ΔTDR	ΔROA	ΔCR	GTA	SIZE
ΔΜV	Pearson Correlation	1.000	-0.021	0.140	0.281	0.620	0.377
	Sig. (2-tailed)	,	0.443	0.169	0.025"	0.000"	0.004"
	N	49	49	49	49	49	49
ΔTDR	Pearson Correlation	-0.021	1.000	-0.066	-0.396	0.319	0.076
	Sig. (2-tailed)	0.443		0.326	0.002"	0.013"	0.302
	N	49	49	49	49	49	49
ΔROA	Pearson Correlation	0.140	-0.066	1.000	0.174	0.565	0.097
	Sig. (2-tailed)	0.169	0.326		0.116	0.000"	0.254
	N	49	49	49	49	49	49
ΔCR	Pearson Correlation	0.281	-0.396	0.174	1.000	-0.084	0.078
	Sig. (2-tailed)	0.025"	0.002"	0.116		0.282	0.296
	N XG	49	49	49	49	49	49
GTA	Pearson Correlation	0.620	0.319	0.565	-0.084	1.000	0.398
	Sig. (2-tailed)	<u>0.000</u> "	0.013"	0.000"	0.282		<u>0.002"</u>
	N	49	49	49	49	49	49
SIZE	Pearson Correlation	0.377	0.076	0.097	0.078	0.398	1.000
	Sig. (2-tailed)	0.004"	0.302	0.254	0.296	0.002"	
(C)	N	49	49	49	49	49	49

^{**} Significant Level at 5%

From table (5-4), the correlation between Δ CR and Δ MV is positive and statistically significant at Pearson significance level (P-value) equal to 0.05. Also, there is a positive and statistically significant relationship between GTA and Δ MV at the same level of significance. The other positive correlation of Δ MV is with SIZE at

the same level. While there is a positive correlation between ΔROA and ΔMV but it is statistically insignificant at P-value equal to 0.05. Finally, the correlation between ΔTDR and ΔMV is negative but statstically insignificant, therefore, the researcher can not depend on it to explain the variation in firm value for the high systematic risk firms and this is consistent with the null hypothesis which states that ansl Chrahic Digital Library Varing Chrahic Digital Library Varing there is no statistically significant relationship between the tow

5.2.1.2 Medium Systematic Risk Firms

Table (5-5) shows the Pearson correlation coefficients between the dependent and independent variables for the medium systematic risk firms.

Table (5-5)
Medium Systematic Risk Firms
Pearson correlation coefficients

		ΔΜV	ΔTDR	ΔROA	ΔCR	GTA	SIZE
ΔΜV	Pearson Correlation	1.000	-0.030	0.307	0.015	0.002	0.263
	Sig. (2-tailed)	•	0.393	<u>0.002</u> "	0.447	0.489	0.008"
	N	84	84	84	84	84	84
ΔTDR	Pearson Correlation	-0.030	1.000	0.088	-0.234	0.701	0.010
	Sig. (2-tailed)	0.393		0.214	<u>0.016</u> "	<u>0.000</u> "	0.464
	N	84	84	84	84	84	84
ΔROA	Pearson Correlation	0.307	0.088	1.000	-0.461	0.016	0.006
	Sig. (2-tailed)	0.002"	0.214		0.000"	0.444	0.479
	N	84	84	84	84	84	84
ΔCR	Pearson Correlation	0.015	-0.234	-0.461	1.000	-0.051	0.031
	Sig. (2-tailed)	0.447	<u>0.016"</u>	<u>0.000</u> "		0.324	0.390
	N	84	84	84	84	84	84
GTA	Pearson Correlation	0.002	0.701	0.016	-0.051	1.000	0.156
	Sig. (2-tailed)	0.489	<u>0.000"</u>	0.444	0.324	·	0.079
	N	84	84	84	84	84	84
SIZE	Pearson Correlation	0.263	0.010	0.006	0.031	0.156	1.000
	Sig. (2-tailed)	0.008"	0.464	0.479	0.390	0.079	
	N	84	84	84	84	84	84

^{**}Significant Level at 5%

From table (5-5), there is 30.7% positive relationship between Δ ROA and Δ MV which is statistically significant at Pearson significance level (P-value) equal to 0.05. The other statistically positive correlation of Δ MV is with SIZE at the same level. While the Δ MV and GTA are positively correlated but it is statistically insignificant so that the correlation between Δ MV and Δ CR at the same level of significance. Also, there is a statistically insignificant relationship between Δ TDR and Δ MV but it is negative. The result of the correlation analysis indicated a lack of significant relationship between Δ TDR and Δ MV for the medium systematic risk firms.

5.2.1.3 Low Systematic Risk Firms

Table (5-6) shows the Pearson correlation coefficients between the dependent and independent variables for the low systematic risk firms.

From table (5-6), SIZE is the only variable that has a significant relationship with Δ MV. There is 28.7% positive relationship between SIZE and Δ MV which is statistically significant at Pearson significance level (P-value) equal to 0.05. The correlation between Δ ROA and Δ MV is positive but statistically insignificant so that the correlation between GTA and Δ MV at the same level of significance. While, the correlation between Δ CR and Δ MV and the correlation

between ΔTDR and ΔMV is negative and both are statistically insignificant at P-value equal to 0.05.

Table (5-6) Low Systematic Risk Firms Pearson correlation coefficients

		ΔΜV	ΔTDR	ΔROA	ΔCR	GTA	SIZE
ΔΜV	Pearson Correlation	1.000	-0.057	0.044	-0.002	0.067	0.287
	Sig. (2-tailed)	•	0.143	0.205	0.489	0.104	0.000"
	N	357	357	357	357	357	357
ΔTDR	Pearson Correlation	-0.057	1.000	-0.427	-0.119	0.411	0.069
	Sig. (2-tailed)	0.143	.11	0.000"	0.012"	<u>0.000</u> "	0.098
	N	357	357	357	357	357	357
ΔROA	Pearson Correlation	0.044	-0.427	1.000	0.007	0.013	-0.024
	Sig. (2-tailed)	0,205	0.000"		0.451	0.401	0.326
	N	357	357	357	357	357	357
ΔCR	Pearson Correlation	-0.002	-0.119	0.007	1.000	0.195	-0.019
	Sig. (2-talled)	0.489	0.012"	0.451		0.000"	0.362
	N	357	357	357	357	357	357
GTA	Pearson Correlation	0.067	0.411	0.013	0.195	1.000	-0.007
	Sig. (2-tailed)	0.104	0.000"	0,401	<u>0.000</u> "		0.445
	N	357	357	357	357	357	357
SIZE	Pearson Correlation	0.287	0.069	-0.024	-0.019	-0.007	1.000
	Sig. (2-tailed)	0.000"	0.098	0.326	0.362	0.445	
	N	357	357	357	357	357	357

^{**}Significant Level at 5%

As a result, the correlation analysis indicates that there is a negative and statistically insignificant relationship between ΔTDR and ΔMV for the three groups of firms; high, medium, and low systematic risk firms.

5.2.1.4 Testing the Issue of Multicollinearity

Because of the correlation between the independent variables, this study examined the possibility of multicollinearity within the variables. Table (5-7) represents the Variance Inflation Factor (VIF) under the three groups of firms.

Table (5-7)
Variance Inflation Factor

High systematic risk firms		Medium syster firms		Low systemmatic risk firms		
Independent variable	VIF	Independent variable	VIF	Independent variable	VIF	
ΔTDR	1.398	ΔTDR	2.174	ΔTDR	1.666	
ΔROA	1.762	ΔROA	1.271	ΔROA	1.310	
ΔCA	1.250	ΔCA	1.366	ΔCA	1.109	
GTA	2.237	GTA	2.111	GTA	1.387	
SIZE	1.267	SIZE	1.046	SIZE	1.006	

The VIF in the table does not exceed 5, and this suggests that there is no multicolinearity within the variables.

5.2.2 Regression Analysis

This section will complete the analysis of data through using the ordinally least square regression approach.

For the high-risk firms' group, to test the hypothesis that capital structure changes do not affect the value of the firm, the following multiple regression model is estimated:

$$\Delta MV_{i_{\uparrow}} = -1993950.946 + -132299.691 \Delta TDR_{i_{\uparrow}} + -275197.542 \Delta ROA_{i_{\uparrow}} + 213746.896 \Delta CR_{i_{\uparrow}} + 224746.231 GTA_{i_{\uparrow}} + 140574.434 SIZE_{i_{\uparrow}} + \epsilon_{i_{\uparrow}}$$

For the medium-risk firms! group, to test the hypothesis that capital structure changes do not affect the value of the firm, the following multiple regression model is estimated:

$$\Delta MV_{i_{\uparrow}} = -256979086.358 + 47181.202 \Delta TDR_{i_{\uparrow}} + 4622682.876 \Delta ROA_{i_{\uparrow}} + 4839872.163 \Delta CR_{i_{\uparrow}} + -35023.288GTA_{i_{\uparrow}} + 15855226.710 SIZE_{i_{\uparrow}} + \epsilon_{i_{\uparrow}}$$

For the low-risk firms' group, to test the hypothesis that capital structure changes do not affect the value of the firm, the following multiple regression model is estimated:

$$\Delta MV_{i_{\uparrow}} = -48259754.713 + -125318.224 \Delta TDR_{i_{\uparrow}} + -14832.741 \Delta ROA_{i_{\uparrow}} + -83537.960 \Delta CR_{i_{\uparrow}} + 65499.762 GTA_{i_{\uparrow}} + 3071033.921 SIZE_{i_{\uparrow}} + \epsilon_{i_{\uparrow}}$$

For the reason of testing the hypothesis the researcher will use the variance analysis (F-Test), the null hypothesis (H_0) will be rejected and accepted the alternative hypothesis (H_A) if the significant level (P-value) is equal to or less than the significant level at (α = 0.05).

5.2.2.1 High Systematic Risk Firms

Table (5-8) shows the statistical analysis between the dependent and the independent variables for the high systematic risk firms.

Table (5-8)
High Systematic Risk Firms
ANOVA

Model		Sum of Squares	Df	Mean Square	F	R Square	Sig.
1	Regression	1.53E+15	5	3.06E+14	17.083	0.665	.000
	Residual	7.71E+14	43	1.79E+13			
	Total	2.3E+15	48				

From table (5-8), the significance of the model (P-value) is (0.000) and since it is less than the significant level (0.05), the null

hypothesis (H_0) is rejected, i.e, at least one of the independent variables can explain the dependent variable (ΔMV) .

The model (R^2) = (0.665) which means that the independent variables explain 66.5% from the dependent variable and this is a good explanatory power.

While from table (5-9) which represent the coefficients, t-test, and the significant level (P-value) for the independent variables, it is obvious that the Δ TDR has a strong negative relationship with Δ MV and it is statistically significant at P-value equal to 0.05, and this suggest that the extensive use of debt affects firm's market value negatively which indicates that the firm is not able to realize the full benefit of debt financing (tax savings). Therefore, the null hypothesis (H₀) is rejected, i.e. there is a statistically significant relationship between capital structure changes and firm value. Also, there is a negative relationship between AROA and AMV and it is statistically significant at the same level of significance. The relationship between Δ CR and Δ MV is positive and statistically significant at P-value equal to 0.05 indicates that the high systematic risk firms are concerned in adjusting their liquidity position to positively affect firm's market value. Also, there is a positive and statistically significant relationship between GTA and Δ MV at the same level of significance indicates that the high systematic risk firms are concerned with the growth of

the firm's total assets to mitigate the effects of high systematic risk. Finally, the relationship between SIZE and Δ MV is positive but it is statistically insignificant and it can be interpreted that firm's investors are not concerned wit firm's assets.

Table (5-9) High Systematic Risk Firms

Coefficients

Model			dardized cients	Standardized Coefficients	t	Sig.
		В	Std. Error	Beta		
1	(Constant)	-1993950.946	13414970.122		-0.149	0.883
	ΔTDR	-132299.691	58997.393	-0.234	-2.242	0.030
	ΔROA	-275197.542	63471.610	-0.508	-4.336	0.000
	ΔCA	213746.896	58532.175	0.360	3.652	0.001
	GTA	224746.231	29502.464	1.006	7.618	0.000
	SIZE	140574.434	852853.279	0.016	0.165	0.870

5.2.2.2 Medium Systematic Risk Firms

Table (5-10) shows the statistical analysis between the dependent and the independent variables for the medium systemmatic risk firms.

Table (5-10)

Medium Systematic Risk Firms

ANOVA

Model		Sum of Squares	df	Mean Square	F	R Square	Sig.
1	Regression	1.1E+17	5	2.2E+16	3.684	0.191	0.005
	Residual	4.66E+17	78	5.98E+15		(0)	
	Totai	5.76E+17	83			7	

From table (5-10), the significance of the model (P-value) is (0.005) and since it is less than the significant level (0.05), the null hypothesis (H_0) is rejected, i.e, at least one of the independent variables can explain the dependent variable (ΔMV) .

The model (R^2) = (0.191) which means that the independent variables explain 19.1% from the dependent variable and this is a weak explanatory power.

While from table (5-11) which represent the coefficients, t-test, and the significant level (P-value) for the independent variables, it is obvious that the Δ TDR has a positive relationship with Δ MV and it is statistically insignificant at P-value equal to 0.05. Therefore, the null hypothesis (H₀) is accepted, i.e., there is a statistically insignificant relationship between capital structure changes and firm value. The relationship between Δ ROA and Δ MV is positive and statistically significant at P-value equal to 0.05 which indicates that the Δ ROA affects firm market value positively. Also, there is a positive

relationship between Δ CR and Δ MV but it is statistically insignificant indicates that the medium risk firms are concerned to adjust their liquidity position to affect firm market value positively. The relationship between GTA and Δ MV is negative and statistically insignificant at the same level of significance. While the relationship between SIZE and Δ MV is positive and statistically significant which indicates that the firm's total assets are used effectively to affect firm's market value positively.

Table (5-11)

Medium Systematic Risk Firms

Coefficients

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		ОВ	Std. Error	Beta		
1	(Constant)	-256979086.358	107186514.673		-2.397	0.019
	ΔTDR	47181.202	1280454.614	0.006	0.037	0.971
	ΔROA	4622682.876	1357214.374	0.391	3.406	0.001
	ΔCA	4839872.163	3090910.463	0.186	1.566	0.121
	GTA	-35023.288	125436.430	-0.041	-0.279	0.781
	SIZE	15855226.710	6327722.051	0.261	2.506	0.014

5.2.2.3 Low Systematic Risk Firms

Table (5-12) shows the statistical analysis between the dependent and the independent variables for the low systemmatic risk firms.

Table (5-12)
Low Systematic Risk Firms
ANOVA

Model		Sum of Squares	Df	Mean Square	F	R Square	Sig.
1	Regression	5.94E+15	5	1.19E+15	7.936	0.102	0.000
	Residual	5.25E+16	351	1.5E+14			
	Total	5.84E+16	356		*,	9	

From table (5-12), the significance of the model (P-value) is (0.000) and since it is less than the significant level (0.05), the null hypothesis (H_0) is rejected, i.e, at least one of the independent variables can explain the dependent variable (ΔMV).

The model (R^2) = (0.102) which means that the independent variables explain 10.2 % from the dependent variable and this is a weak explanatory power.

While from table (5-13) which represent the coefficients, t-test, and the significant level (P-value) for the independent variables, it is obvious that the ΔTDR has a strong negative relationship with ΔMV and it is statistically significant at P-value equal to 0.05, and this suggest that the extensive use of debt affects firm's market value negatively which indicates that the firm is not able to realize the full benefit of debt financing (tax savings). Therefore, the null hypothesis (H_0) is rejected, i.e, there is a statistically significant relationship

between capital structure changes and firm value. Also, there is a negative relationship between ΔROA and ΔMV and it is statistically insignificant. While the relationship between ΔCR and ΔMV is negative and statistically insignificant indicates that the low systematic risk firms are not concerned in adjusting their liquidity position to affect firm's market value. Finally, the GTA and SIZE have a strong positive relationship with ΔMV and both are statistically significant at P-value equal to 0.05 giving the implication of a strong relationship between firm's total assets and its market value.

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Table (5-13) Low Systematic Risk Firms Coefficients

	<u> </u>	Coeffic	ardized cients	Standardized Coefficients	†	Sig.
		В	Std. Error	Beta		
1	(Constant)	-48259754.713	8690671.152		-5.553	0.00
	ΔTDR	-125318.224	57756.543	-0.142	-2.170	0.03
	ΔROA	-14832.741	76641.274	-0.011	-0.194	0.84
	ΔCA	-83537.960	114067.573	-0.039	-0.732	0.46
	GTA	65499.762	28940.934	0.135	2.263	0.02
	SIZE	3071033.921	525889.318	0.296	5.840	0.00
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CHAPTER SIX

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RESULTS &

RECOMMENDATIONS

6.1 Results

The results of the study are summarized as follows:

- 1-For the high systematic-risk firms,
- -There is a statistically significant negative relationship between change in firm's market value (ΔMV) and changes in capital structure (ΔTDR).
- -There is a statistically significant negative relationship between change in firm's market value (ΔMV) and changes in profitability (ΔROA).
- -There is a statistically significant positive relationship between change in firm's market value (Δ MV) and changes in liquidity (Δ CR).
- -There is a statistically significant positive relationship between change in firm's market value (ΔMV) and firm's growth (GTA).
- 2- For the medium systematic-risk firms,
- There is a statistically significant positive relationship between change in firm's market value (ΔMV) and changes in profitability (ΔROA).
- -There is a statistically significant positive relationship between change in firm's market value (ΔMV) and firm's size (SIZE).

- 3- For the low systematic-risk firms,
- -There is a statistically significant negative relationship between changes in firm's market value (ΔMV) and changes in capital structure (ΔTDR).
- -There is a statistically significant positive relationship between changes in firm's market value (ΔMV) and firm's growth (GTA).
- -There is a statistically significant positive relationship between changes in firm's market value (ΔMV) and firm's size (SIZE).
- 4- The high-risk and low-risk non-financial Jordanian companies use an excess amount of debt and thereby could not able to realize the main benefits from using debt financing.

6.2 Recommendations

After mentioning the results gained from the study, the recommendations can be summarized as follows:

1-The study recommends that the non-financial Jordanian companies classified as high-risk firms should take into consideration the factors that determining their market values such as the change in capital structure, changes in profitability, change in liquidity, and firm's growth.

- 2- The study recommends that the non-financial Jordanian companies classified as medium-risk firms should take into consideration the factors that determining their market values such as changes in profitability and firm's size.
- 3-The study recommends that the non-financial Jordanian companies classified as low-risk firms should take into consideration the factors that determining their market values such as the change in capital structure, firm's growth, and firm's size.
- 4-This study also recommends that an improvement might be attained through including other variables and/or indicators such as tax position, sales stability, lenders attitudes, and assets tangibility which will help in more understanding of the relationship between the changes in firm's capital structure and changes in firm's market value.

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APPENDICES

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Appendix (1) List Of Sample Companies

Company Name JORDAN INDUSTRIAL RESOURCES JORDANIAN EXPATRIATES INVESTMENT HOLDING NATIONAL PORTFOLIO SECURITIES UNION INVESTMENT CORPORATION READY MIX CONCRETE AND CONSTRUCTION SUPPLIES WOOLEN INDUSTRIES UNION CHEMICAL & VEGETABLE OIL INDUSTRIES ARAB FINANCIAL INVESTMENT MIDDLE RAST PHARM. AND CHEMICAL IND. & MEDICAL APPLIANCES JORDAN NEW CABLE JORDAN SULPHO CHEMICALS NATIONAL CABLE & WIRE MANUFACTURING JORDAN TEMPORAL FOR ENG., ELECTRONICS AND HEAVY INDUSTRIES THE JORDAN PIPES MANUFACTURING ARAB POTASH THE UNIFIED FOR ORGANIZING LAND TRANSPORT THE JORDAN POSPHATE MINES THE JORDAN WORSTED MILLS UNION LAND DEVELOPMENT COPPORATION UNITED FINANCIAL INVESTMENT UNION LAND DEVELOPMENT COPPORATION UNITED FINANCIAL INVESTMENT JORDAN PAPER & CARDBOARD FACTORIES ARAB ELECTRICAL INDUSTRIES GENERAL INVESTMENT JORDAN POULTRY PROCESSING & MARKETING JORDAN POULTRY PROCESSING & MARKETING JORDAN POULTRY PROCESSING & MARKETING JORDAN DELECTRIC POWER THE PUBLIC MINING NATIONAL ALUMINIUM INDUSTRIAL CENTURY INVESTMENT GROUP IRBID DISTRICT ELECTRICITY INTERNATIONAL TOBACCO & CIGARETTES NATIONAL STEEL INDUSTRIES GEAL ESTATE INVESTMENT GROUP IRBID DISTRICT ELECTRICITY INTERNATIONAL TOBACCO & CIGARETTES NATIONAL STEEL INDUSTRIES JORDAN PRESS FEDERATION NATIONAL CHAORINE INDUSTRIES JORDAN PRESS FUBLISHING //AD-DUSTOUR) DAR AL DAWA DEVELOPMENT & INVESTMENT JORDAN PRESS FOURDATION //AL-RA¹ JORDAN CHEMICAL INDUSTRIES	List Of Sample Companies
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NATIONAL ALUMINIUM INDUSTRIAL. CENTURY INVESTMENT GROUP IRBID DISTRICT ELECTRICITY INTERNATIONAL TOBACCO & CIGARETTES NATIONAL STEEL INDUSTRY VEHICLES OWNERS FEDERATION NATIONAL CHLORINE INDUSTRIES REAL ESTATE INVESTMENT/ AKARCO UNIVERSAL CHEMICAL INDUSTRIES ZARA INVESTMENTS JORDAN PRESS & PUBLISHING /(AD-DUSTOUR) DAR AL-DAWA DEVELOPMENT & INVESTMENT JORDAN PRESS FOUNDATION / AL-RA'I JORDAN TANNING	JORDAN ELECTRIC POWER
IRBID DISTRICT ELECTRICITY INTERNATIONAL TOBACCO & CIGARETTES INATIONAL STEEL INDUSTRY VEHICLES OWNERS FEDERATION INATIONAL CHLORINE INDUSTRIES REAL ESTATE INVESTMENT/ AKARCO UNIVERSAL CHEMICAL INDUSTRIES ZARA INVESTMENTS JORDAN PRESS & PUBLISHING /(AD-DUSTOUR) DAR AL-DAWA DEVELOPMENT & INVESTMENT JORDAN PRESS FOUNDATION / AL-RA'I JORDAN TANNING LORDAN EXPRESS TOURIST TRANSPORT	THE PUBLIC MINING
IRBID DISTRICT ELECTRICITY INTERNATIONAL TOBACCO & CIGARETTES NATIONAL STEEL INDUSTRY VEHICLES OWNERS FEDERATION NATIONAL CHLORINE INDUSTRIES REAL ESTATE INVESTMENT/ AKARCO UNIVERSAL CHEMICAL INDUSTRIES ZARA INVESTMENTS JORDAN PRESS & PUBLISHING /(AD-DUSTOUR) DAR AL- DAWA DEVELOPMENT & INVESTMENT JORDAN PRESS FOUNDATION / AL-RA'I JORDAN TANNING	NATIONAL ALUMINIUM INDUSTRIAL
INTERNATIONAL TOBACCO & CIGARETTES NATIONAL STEEL INDUSTRY VEHICLES OWNERS FEDERATION NATIONAL CHLORINE INDUSTRIES REAL ESTATE INVESTMENT/ AKARCO UNIVERSAL CHEMICAL INDUSTRIES ZARA INVESTMENTS JORDAN PRESS & PUBLISHING /(AD-DUSTOUR) DAR AL-DAWA DEVELOPMENT & INVESTMENT JORDAN PRESS FOUNDATION / AL-RA'I JORDAN TANNING LORDAN EXPRESS TOURIST TRANSPORT	CENTURY INVESTMENT GROOF
NATIONAL STEEL INDUSTRY VEHICLES OWNERS FEDERATION NATIONAL CHLORINE INDUSTRIES REAL ESTATE INVESTMENT/ AKARCO UNIVERSAL CHEMICAL INDUSTRIES ZARA INVESTMENTS JORDAN PRESS & PUBLISHING /(AD-DUSTOUR) DAR AL-DAWA DEVELOPMENT & INVESTMENT JORDAN PRESS FOUNDATION / AL-RA'I JORDAN TANNING LORDAN EXPRESS TOURIST TRANSPORT	IRBID DISTRICT ELECTRICITY
VEHICLES OWNERS FEDERATION NATIONAL CHLORINE INDUSTRIES REAL ESTATE INVESTMENT/ AKARCO UNIVERSAL CHEMICAL INDUSTRIES ZARA INVESTMENTS JORDAN PRESS & PUBLISHING /(AD-DUSTOUR) DAR AL- DAWA DEVELOPMENT & INVESTMENT JORDAN PRESS FOUNDATION / AL-RA'I JORDAN TANNING LORDAN EXPRESS TOURIST TRANSPORT	INTERNATIONAL TOBACCO & CIGARETTEO
NATIONAL CHLORINE INDUSTRIES REAL ESTATE INVESTMENT/ AKARCO UNIVERSAL CHEMICAL INDUSTRIES ZARA INVESTMENTS JORDAN PRESS & PUBLISHING /(AD-DUSTOUR) DAR AL- DAWA DEVELOPMENT & INVESTMENT JORDAN PRESS FOUNDATION / AL-RA'I JORDAN TANNING LORDAN EXPRESS TOURIST TRANSPORT	NATIONAL STEEL INDUSTRY
REAL ESTATE INVESTMENT/ AKARCO UNIVERSAL CHEMICAL INDUSTRIES ZARA INVESTMENTS JORDAN PRESS & PUBLISHING /(AD-DUSTOUR) DAR AL- DAWA DEVELOPMENT & INVESTMENT JORDAN PRESS FOUNDATION / AL-RA'I JORDAN TANNING LORDAN EXPRESS TOURIST TRANSPORT	VEHICLES OWNERS FEDERATION
UNIVERSAL CHEMICAL INDUSTRIES ZARA INVESTMENTS JORDAN PRESS & PUBLISHING /(AD-DUSTOUR) DAR AL- DAWA DEVELOPMENT & INVESTMENT JORDAN PRESS FOUNDATION / AL-RA'I JORDAN TANNING LORDAN EXPRESS TOURIST TRANSPORT	NATIONAL CHLORINE INDUSTRIES
JORDAN PRESS & PUBLISHING /(AD-DUSTOUR) JORDAN PRESS & PUBLISHING /(AD-DUSTOUR) DAR AL- DAWA DEVELOPMENT & INVESTMENT JORDAN PRESS FOUNDATION / AL-RA'I JORDAN TANNING LIORDAN EXPRESS TOURIST TRANSPORT	REAL ESTATE INVESTMENT/ AKARCO
JORDAN PRESS & PUBLISHING /(AD-DUST COR) DAR AL- DAWA DEVELOPMENT & INVESTMENT JORDAN PRESS FOUNDATION / AL-RA'I JORDAN TANNING JORDAN EXPRESS TOURIST TRANSPORT	UNIVERSAL CHEMICAL INDUSTRIES
DAR AL- DAWA DEVELOPMENT & INVESTMENT JORDAN PRESS FOUNDATION / AL-RA'I JORDAN TANNING JORDAN EXPRESS TOURIST TRANSPORT	EARA INIVIROTMENTS
JORDAN PRESS FOUNDATION / AL-RAY JORDAN TANNING JORDAN EXPRESS TOURIST TRANSPORT	LOBDAN BRESS & PUBLISHING /(AD-DUSTOOK)
JORDAN TANNING JORDAN EXPRESS TOURIST TRANSPORT	DAR AL- DAWA DEVELOPMENT & INVESTIGIENT
IORDAN EXPRESS TOURIST TRANSPORT	JORDAN PRESS FOUNDATION / AL-RA1
JORDAN EXPRESS TOURIST TRANSPORT JORDAN CHEMICAL INDUSTRIES	JORDAN TANNING
JORDAN CHEMICAL INDUSTRIES	JORDAN EXPRESS TOURIST TRANSPORT
	JORDAN CHEMICAL INDUSTRIES

JORDAN CERAMIC INDUSTRIES
ARAB ALUMINIUM INDUSTRY/ARAL
JORDAN NATIONAL SHIPPING LINES
ARABIAN STEEL PIPES MANUFACTURING
THE ARAB INTERNATIONAL FOOD FACTORIES
NATIONAL POULTRY
INTERNATIONAL CERAMIC INDUSTRIES
AL-SHARQ INVESTMENTS PROJECTS
JORDAN WOOD INDUSTRIES (JWICO)
THE INDUSTRIAL COMMERCIAL & AGRICULTURAL
INTERMEDIATE PETRO CHEMICALS IND.
JORDAN DAIRY
THE ARAB INTERNATIONAL FOR EDUCATION & INV.
JORDAN HOTELS & TOURISM
THE ARAB CHEMICAL DETERGENTS INDUSTRY
ARAB CENTER FOR PHARM. & CHEMICALS
ARAB ENGINEERING INDUSTRIES
JORDAN HIMEH MINERAL
AL-ZARQA EDUCATIONAL & INVESTMENT
JORDAN PETROLEUM REFINERY
THE UNION TOBACO & CIGARETTE INDUSTRIES
UNIVERSAL MODERN INDUSTRIES
JORDAN INDUSTRIES & MATCH /(JIMCO)
PEARL SANITARY PAPER CONVERTING
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APPENDIX (2)

#	Company Name
	JORDAN INDUSTRIAL RESOURCES
1 2	JORDANIAN EXPATRIATES INVESTMENT HOLDING
3	NATIONAL PORTFOLIO SECURITIES
1 4	UNION INVESTMENT CORPORATION
1 5	READY MIX: CONCRETE AND CONSTRUCTION SUPPLIES
1 a	WOOLEN INDUSTRIES
1 7	UNION CHEMICAL & VEGETABLE OIL INDUSTRIES
	

#	Company Name
1	ARAB FINANCIAL INVESTMENT
	MIDDL EAST PHARM, AND CHEMICAL IND. & MEDICAL APPLIANCES
	JORDAN NEW CABLE
	JORDAN TRADE FACILITIES
5	JORDAN SULPHO CHEMICALS
6	NATIONAL CABLE & WIRE MANUFACTURING
7	JORDAN CEMENT FACTORIES
E	THE JORDAN PIPES MANUFACTURING
5	ARAB POTASH
<u></u>	THE UNIFIED FOR ORGANIZING LAND TRANSPORT
1	MIDDLE EAST COMPLEX FOR ENG., ELECTRONICS AND HEAVY INDUSTRIES
	JORDAN STEEL

#		Company Name
	- 1	IORDAN PHOSPHATE MINES
H		THE JCRDAN WORSTED MILLS
	3	UNION LAND DEVELOPMENT COPRPORATION
┞	4	UNITED FINANCIAL INVESTMENT
厂	5	ARAB INTERNATIONAL HOTELS
Г	6	JORDAN PAPER & CAROBOARD FACTORIES
Г	7	ARAB ELECTRICAL INDUSTRIES
Γ	8	GENERAL INVESTMENT
٢	9	JORDAN POULTRY PROCESSING & MARKETING
Г	10	JORDAN ELECTRIC POWER
Γ		THE FUBLIC MINING
Γ	12	NATIONAL ALUMINIUM INDUSTRIAL
r	13	CENTURY INVESTMENT GROUP
۲	14	IRBID DISTRICT ELECTRICITY
r	15	INTERNATIONAL TOBACCO & CIGARETTES
Ţ		NATIONAL STEEL INDUSTRY
ſ		VEHICLES OWNERS FEDERATION
ſ	18	NATIONAL CHLORINE INDUSTRIES
Ţ	15	REAL ESTATE INVESTMENT/ AKARCO
Ţ		UNIVERSAL CHEMICAL INDUSTRIES
Ī	2	1 ZARA INVESTMENTS
Ī	2	2 JORDAN PRESS & FUBLISHING /(AD-DUSTOUR)
Ī	2	3 DAR AL-DAWA DEVELOPMENT & INVESTMENT
ı	2	4 JORDAN PRESS FOUNDATION / AL-RAII

	25	JORDAN TANNING
	26	JORDAN EXPRESS TOURIST TRANSPORT
		JORDAN CHEMICAL INDUSTRIES
	28	JORDAN CERAMIC INDUSTRIES
		ARAB ALUMINIUM INDUSTRY/ARAL
_		JORDAN NATIONAL SHIPPING LINES
	31	ARABIAN STEEL PIPES MANUFACTURING
	32	THE ARAB INTERNATIONAL FOOD FACTORIES
		NATIONAL POULTRY
Γ		INTERNATIONAL CERAMIC INDUSTRIES
Γ	35	AL-SHARQ INVESTMENTS PROJECTS
Г	36	JORDAN WOOD INDUSTRIES (JWICO)
Γ		THE INDUSTRIAL COMMERCIAL & AGRICULTURAL
Γ	35	INTERMEDIATE PETRO CHEMICALS IND.
Ī	39	JORDAN DAIRY
ľ		THE ARAB INTERNATIONAL FOR EDUCATION & INV.
Į	4	JORDAN HOTELS & TOURISM
	4	THE ARAB CHEMICAL DETERGENTS INDUSTRY
[3 ARAB CENTER FOR PHARM. & CHEMICALS
[4 ARAB ENGINEERING INDUSTRIES
I		5 JORDAN HIMEH MINERAL
I		6 AL-ZARGA EDUCATIONAL & INVESTMENT
1	4	7 JORDAN PETROLEUM REFINERY
ĺ		8 THE UNION TOBACO & CIGARETTE INDUSTRIES
		IS UNIVERSAL MODERN INDUSTRIES
1		30 JORDAN INDUSTRIES & MATCH ((JIMCO)
		51 PEARL SANITARY PAPER CONVERTING

Markert Index

	Return							
2004	2003	2002	2001	2000	1999	1998_	COV	Beta
-0.24	6.56	-0.40	-0.42	-0.09	0,24	-0.35	0.33	3.4
3.43	-0.17	-0.32	0.00	0.00	0.12	-0.11	0.22	2.2
0.84	2.18	-0.23	0.09	0.02	0.13	-0.20	0.17	1.8
1.07	1.03	-0.13	0.72	-0.29	0.20	-0,46	0.16	1.6
2.31	0.04	-0.02	0.16	0.04	-0.11	-0.15	0.16	1.6
1.48	0.70	-0.41	-0.30	-0.21	-0.19	-0.02	0.15	1.6
0.89	1.57	-0.07	-0.54	-0.41	0.22	-0.11	0.15	1.5

	Return								
2004	2003	2002	2001	2000	1999	1998	COV	Beta	
1.01	1.89	0.00	0.25	0.22	1.23	-0.69	0.14	1.39	
0.28	1.78	0.02	0.26	-0.42	0.16	-0.12	0.14	1,37	
0.87	1.44	0.33	0.29	-0.04	0.23 4	-0.32	0.13	1.31	
1.65	0,31	-0.24	0.24	0.08	0.09	-0.02	0.13	1.27	
-0.22	2.70	-0.29	-0.70	-0.04	0.26	-0,32	0.12	1,26	
1.28	0.98	0.75	-0.29	0.114	-0.30	-0.47	0.12	1.22	
1.28	0.73	0.08	-0.01	-0,11	0.06	0.03	0.12	1.22	
0.79	1.03	0.27	0.30	-0.03	-0.32	-0.16	0.12	1,17	
1.37	0.22	0.03	0.18	-0.28	0.54	-0.55	0.12	1.17	
0.08	2.02	-0.15	-0.39	-0.16	0.27	0.55	0.09	0.96	
0.33	1.22	-0.24	0.09	-0.15	0.46	-0.07	0.09	0.90	
0.45	0.92	-0.09	1.09	0.03	-0.04	0.34	0.09	0.90	

	Return							
2004	2003	2002	2001	2000	1999	1998	cov	Beta
0.30	0.73	-0.06	0.33	-0.59	0.83	-0.59	0.09	0.89
0.68	0.53	-0.09	0.01	-0.20	-0.03	-0.04	0.09	0.87
0.64	0.44	0.09	0.46	-0.02	0.00	-0.58	0,08	0.85
0.69	0.74	0.05	0.18	-0.08	0.03	0.17	0.08	0.85
0.79	0.02	-0.38	0.00	-0.22	-0.30	0,01	0.08	0.83
0.72	0.11	0.65	0.13	-0.54	-0.18	-0,32	0.08	0.79
0.79	0.33	0.43	0,50	-0.03	-0.17	-0.22	0.08	0.77
0.83	0.23	-0.06	-0.15	-0.23	-0.09	0.22	0.07_	0.75
0.50	0.16	0.32	0.00	-0.72	0.00	0.00	0.07	0.72
0.40	0.57	-0.03	0.25	-0.09	0.20	-0.23	0.07	0.66
-0.04	1.04	0.39	0.44	-0.21	0.00	-0,17	0.06	0.64
0,29	0.87	0.27	0.09	-0.18	0.17	0.00	0.06	0.64
0.90	-0.36	-0.25	0.42	-0.15	-0.12	0.09	0.06	0.63
0.43	0.35	0.10	0.44	-0.06	0.19	-0.38	0.06	0.58
0.18	0.05	0.11	2.11	-0.22	0.15	0.01	0.06	0.56
0.29	0.43	0.05	0.90	0.13	0.20	-0.29	0.05	0.49
-0.01	0.48	-0.15	-0.28	-0.29	0.09	-0.44	0.05	0.48
-0.30	1.20	0.61	-0.11	-0.26	-0 09	-0.14	0.04	0.45
-0.31	0.90	0.56	-0.07	-0.46	-0.02	-0.02	0.04	0.37
0.23	0.24	-0.09	0.06	-0.13	0.39	-0.35	0.04	0.36
0.55	0.04	-0.32	-0.06	-0.10	-0.05	0.65	0.04	0.36
-0.16	0.59	0.13	-0.17	-0.28	-0.05	-0.11	0.03	0.34
0.16	-0.03	0.53	0.72	-0.19	-0.49	-0.11	0.03	0.34
0.11	0.77	0.28	-0.10	-0.07	0.59	-0.32	0.03	0.33

								///
-0.07	-0.02	-0.05	0.44	-0.32	-0.28	-0.11	0.03	0.31
1.29	-0.04	-0.08	-0.21	0.13	-0,03	1,78	0.03	0.30
-0.01	0.57	-0.10	-0.45	-0.02	-0.10	0.02	0.03	0.27
-0.12	0.54	0.22	0.04	0.09	0.06	-0.75	0.03	0.27
0.02	0.00	0.02	0.20	-0.13	-0.19	-0.25	0.02	0.23
0.19	0.25	1.30	0.36	-0.18	-0.10	-0.58	0.02	0.23
0.63	-0.16	-0.09	-0.21	-0.05	0.05	0.41	0.02	0.22
-0.12	0.64	0.26	0.00	0.00	-0.05	-0.05	0.02	0.21
-0.14	0.70	0.54	0.18	-0.30	0.39	0.08	0,02	0.20
-0.38	0.77	0.85	0.63	-0.09	-0.03	-0,39	0.02	0.18
0.34	-0.16	-0.10	-0.01	-0.02	0.00	-0.02	0.02	0.18
0.34	0.04	0.54	-0.56	-0,08	-0.25	-0.23	0.02	0.16
0.20	0.23	-0.26	0.01	0.60	-0.47	-0.09	0.01	0.15
0.00	0.00	0.43	0.00	-0.13	-0.50	-0.18	0.01	0.13
-0.10	0.26	0.11	0.08	-0.15	0.09	0.01	0.01	0.11
-0.01	0.53	0.24	0.15	-0.14	0.00	0.90	0.01	0,08
0.03	-0.17	0.00	-0.05	-0.09	-0.57	0.18	0.00	0.04
80.0	0.09	0.26	0.13	0.07	0.12	-0.18	0,00	0.02
-0.14°	0.30	0.70	0.38	-0.14	0.02	0.03	0.00	0.00
0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	-0.01
0.00	0.00	0.00	0.00	0.00	0.00	0.24	-0.01	-0.06
-0.19	0.51	0.96	0.11	-0.10	0.52	-0.51	-0.01	-0.07
0.44	-0.70	-0.02	0,15	-0.01	0.07	0.02	-0.01	-0.07
-0.08	0.01	-0.06	1.05	0.04	0.04	1.41	-0.02	-0.22
0.41	0.39	-0.19	-0.21	1.56	-0.11	-0.24	-0.03	-0.29
-0.07	0.60	-0.02	0.38	-0.16	4.43	-0.18	-0.07	-0.75
0.04	0.56	0.40	-0.07	4.46	-0.38	-0.06	-0.21	-2.13

0.624 0.538	-0.02	0.298	-0.2	-0.02	0.005	0.099	1

High Systimatic Risk

APPENDIX (3)	ΛWQ	2004 2003 2002 2001 2000	-580000 9440000 -960000 -1760000 -400000	15502805.75 -921788.45 -2513968.5 0	7375000 4200000 -575000 200000 -2200000	42240000 10230000 -1430000 4730000 -2640000	9620000 120000 -60000 390000 90000	606000 322000 -322000 -336000 -294000	2960000 1100000 -785000 -1732500 -2227500
© Arabic Digition		E Company Name	1 JORDAN INDUSTRIAL RESOURCES	JORDANIAN EXPATRIATES INVESTMENT HOLDING	3 NATIONAL PORTFOLIO SECURITIES	ALINION INVESTMENT CORPORATION	SIREADY MIX CONCRETE AND CONSTRUCTION SUPPLIES	6 WOOLEN INDUSTRIES	71 INION CHEMICAL & VEGETABLE OIL INDUSTRIES

	armouk University.
C) Arabic Digital	1999 1998 880000 -2000000 837989.5 -1675979 500000 -1000000 1540000 0 -270000 -100500 -336000 -90000
Ohrabic	

High Systimatic Risk

		1999	-7.6107	-1.3812	4.5361	-13.3843	-2.7696	-4.9517	-13.3256	
		2000	5.1523	0.6964	-17.7770	16.5575		-7.3785	0.3194	University
	AROA %	2001	-0.8217	0.8809	0.3910	-12.5136	-1.7621	-5.0576	-2.2785	Unive
		2002	2.0425	-22.4196	15.0823	12,4863	-1.5736	3.9849	11.3869	
		2003	11.9793	44.6730	21.3446	29.0931	1		8028.91-	
	S	2004	-7.9470	28.6050	11.1814		1.1226	12.2116	26.3330	
C Arabic Digitalli		1998	10.3106	-5.9910	-9.4002	-25.0429	2.6795	3.0585	5.5851	
nic Die		1999	\vdash	-1.4861	-2.0624	-0.6743	-8.3544	-5.4089	14.8799	
Arab		2000	8.2321	-34.1224	5.5370	-2.3305	9.8991	-1.6423	-2.4258	
	ATDR %	2001	3.6645	30.3862	0.2041	-1.4125	5.7200	0.9501	-7.5554	
		2002		-29.6044	20.5561		7.7329	-3.1745	2.1586	
		2003		-0.7205	-6.6687	-0.3464	-2.5705	-	7.8299	
		2004	-11.7209	0.8200	-1.9694	-2.2506	-0.1086	-7.5820	-42.5938	ı

1998 4.1081 0.1357 -3.2268 0.0701 -0.4506 -4.3084 -1.5880

High Systimatic Risk

		1999	-6.3049	4.336/	0.7204	-16.3975	-7.6442	-9.0884	8.0149	
		2000	10.5849	-34.9109	-38.0540	-2.4092	24.9133	-11.9145	-29.6269	esite
	GTA %	2001	1.1975	45.4748	-18.1493	-13.2596	10.3511	-22.6325	-36.7099	University
		2002	17.6449	-43.2519		_	12.5107	-8.1312	2.2707	
		2003			27.3629	60.4355	-3.3473	6.0462	-20.3507	I
	8	2004	-2.7909	110.3049	50.3222	83.5647	48.9348	24.7358	-0.7973	
		1998	0.0601	1.4878	7.1193	3.2339	-0.1768	-1.3597	0.0151	
; cDiso		1999	-0.3079	-0.1900	4.9688	2.6352	0.3338	1.9180	0.3043	
© Arabic Digitalli		2000	-0.1120	29.7963	-9.2931	-8.2593	-0.0187	0.7351	0.0605	
	ACR Times	2001	0.7723	-30.9471	-0.2407	14.5614	-0.2094	-0.7141	-0.1002	
	¥ 	2002	0.0610	8.7308	-5.2883	-11.3442	0.5890	2.2688	0.0801	
		2003	-0.1739	51.9240	0.8444	9 7789	-0.6286	-2 4598	-0.1793	
		2004	2.3041	-17.2242	0.3862	32 2362	0.4124	5 5206	3.1636	

High Systimatic Risk

										Windersitä
		1998	16.5511	16.3952		- 1	15.4394	14.5350	16.3212	JK Jin.
		1999	16.4860	16.3509		15.9675	15.3598	14.4397	16.3983	
		2000	16.5866		-27		15.5823	14.3129	16.0469	
	SIZELn	2001			15.2503	15.8009		14.0563	15.5895	
© Arabic Digitalli		2002	16.7610	15.7297	15.5218	16.3068	15.7987	13.9715	15.6119	
		2003	16.9145	15.9778	15.7637	16.7795	15.7646	14.0302	15.3844	
Char		2004	1	16.7212	16.1713	17.3869	16.1630	14.2512	15.3764	
		1998	15.9985	-9.4057	-11.7498	-12.7162	6.6071	5.9830	16.5632	
	-			-						-

#	Company Name
	1 ARAB FINANCIAL INVESTMENT
2	2 MIDDL EAST PHARM. AND CHEMICAL IND. & MEDICAL APPLIANCES
က	3 JORDAN NEW CABLE
4	4 JORDAN TRADE FACILITIES
5	5 JORDAN SULPHO CHEMICALS
9	6 NATIONAL CABLE & WIRE MANUFACTURING
7	JORDAN CEMENT FACTORIES
ω	8 THE JORDAN PIPES MANUFACTURING
ර	9 ARAB POTASH
10	10 THE UNIFIED FOR ORGANIZING LAND TRANSPORT
11	11 MIDDLE EAST COMPLEX FOR ENG., ELECTRONICS AND HEAVY INDUSTRIES
12	12 JORDAN STEEL

APPENDIX (4)

			ΔMV		
2004	2003	2002	2001	2000	1999
5500000	2425000	0	000009	440000	-240000
3610000	8265000	95000	000056	-2660000	855000
30984000	14240000	2480000	1680000	-240000	1120000
6144023.8	671994.4	-671994.4	545995.45	167998.75	167998
-1235649.67	1215695.52	-180103.04	-1440824.36	-90051	450257
12000000	4650000	2025000	-1125000	375000	-1500000
416462329.4	137208924.2	13902225.8	-1208889	-22364450	11484447
6110000	3900000	812500	682500	-65000	-1137500
529902480	69987120	9998160	47491260	-100814780	125810180
700000	6050000	-550000	-2300000	-1150000	1500000
27823849.18	26940150.82	-2684000	1320000	-2640000	5720000
24000000	25500000	-2700000	15900000	450000	-600000

			5	ATDR				
1998	2004	2003	2002	× 2001	2000	1999	1998	2004
-2600000	9.3585	21.2643	7.5906	2.3475	-6.6420	1.5587	-14.9165	-0.6623
-760000	9.1775	1.0876	7.6056	5.0865	2.5699	-2.4213	0.3592	-8.9431
-2320000	18.4507	8.6003	0.6204	-9.7506	0.7576	22.2360	1.0928	2.5754
461997	-18.4709	-3.1454	-1.3975	6.5137	14.8477	6.5524	-1.0637	4.7282
-810464	15.2236	2.6248	1.9862	2.3825	2.3365	-2.3466	-0.0626	6.8035
-4350000	7.9572	3.2100	-4.6255	4.5713	0.2052	-0.7328	-0.4589	5.8073
4835557	-4 1020	-5.5497	-4.8911	-1.7123	-2.1017	4.8946	-1.6089	8.6659
-682500	-3.0475	6.7589	-10.8375	6.5556	-3.9192	-5.3867	0.8137	4.5712
-284114380	2.7473	1.4220	2.6534	0.8550	-11.1804	2,4814	4.3504	23.5472
-3050000	54.7074	-2.5493	6.2903	-6.0700	-2.7790	15.3842	-1.7451	-1.9235
-880000	8.5206	-1.2489	10.5460	-0.9631	6.7556	-2.2591	-7.3490	0.6454
3750000	-4.6184	-10.9734	7.1700	12.1099	-24.0289	0.7342	7.4274	3.3664
							X / _ X	

		AROA				,			ΔCR
2003	2002	2001	2000	1999	1998	2004	2003	2002	2001
12.8907	3.6851	23.4568	-12.2053	24.1362	-30.0711	-0.5071	-4.3997	-10.1971	-13.2852
8.0370	0.3451	-7.8114	7.6143	-1.9993	-4.4099	-0.2822	-0.0630	-0.6662	0.0092
-0.1459	-0.2274	1.8840	1.7444	0.9225	-3.5663	-1.3614	1.1677	0.2437	0.1395
0.5072	-0.1276	0.6418	-0.5302	1.0327	5.4648	1.0297	0.0380	0.0595	-0.1759
-4.2893	0.7394	2.4941	-1.6656	-4.4772	-3.5196	0.1324	-0.3936	0.0079	-0.6241
0.2629	-0.2499	1.8031	-1.0683	1.6140	-3.8727	-0.1420	-0.0222	-0.1940	0.0513
5.3716	4.1906	3.3656	-3.1664	1.9835	-2.2868	1.4226	0.9840	-0.5302	-0.4522
-0.7056	3.9111	0.3046	2.2998	-2.6427	-1.5697	0.4552	-0.6746	1.1090	-0.4125
-19.9089	-3.2070	-0.7260	-0.0258	1.1692	1.4304	0.1361	-0.1474	-0.3163	-0.0595
1.7072	-0.5528	-2.4571	-0.3119	-4.0185	-2.0436	0.1028	-0.0103	0.1562	-0.0468
0.8424	0.5529	-0.3407	-0.4562	-0.3414	0.2889	-0.4236	0.7156	-0.5997	-0.0004
-0.0120	1.5414	2.2322	4.9686	-3.8146	2.6141	0.5361	0.6006	-0.0493	-0.0866

						GTA		
2000	1999	1998	2004	2003	2002	2001	2000	1999
22.1467	-1.6272	6.2362	32.6603	44.5755	14.3501	3.1738	-24.2222	-12.6330
-0.0087	0.5427	0.3322	3.0545	4.2328	1.1129	-1.8284	3.9496	0.8200
-0.4737	0.0584	0.1069	103.9388	21.5621	3.5965	-12.9974	9.3993	40.7975
-0.4351	-0.6686	0.3379	5.9214	0.9078	3.3168	19.1875	30.0591	13.3994
0.9054	-0.1666	-0.1160	54.0197	-3.4608	-10.9026	-4.2263	-8.5548	-13.9769
-0.3462	0.4193	0.0742	28.0745	4.0336	-9.2133	6.4846	-3.8505	-16.4159
0.4080	0.2188	0.4941	22.7853	5.7135	1.1210	1.7937	-0.0188	-6.7908
0.2956	0.3002	-0.0587	4.4859	11.9773	-9.8656	9.8107	-3.0383	-10.4569
1.5584	-0.2883	0.6616	7.5328	-19.5977	2.9068	6.1031	-5.7923	10.0315
-0.6105	-1.2228	-0.5276	888.8121	-0.9398	6.8728	-8.2425	0.9933	28.9522
0.3461	0.1421	0.3771	59.5287	41.5717	24.5673	1.1642	16,7741	0.1774
0.7940	0.0544	0.2223	1.3128	-11.0811	20.8413	25.9002	-20.4913	-0.9810
								I

			3	SIZE			
1998	2004	2003	2002	2001	2000	1999	1998
-39.1566	15.7248	15.4422	15.0735	14.9394	14.9082	15.1856	15.3206
14.3583	16.2215	16.1914	16.1499	16.1389	16.1573	16.1186	16.1104
3.2278	17.5277	16.8151	16.6198	16.5845	16.7237	16.6339	16.2917
1.3223	15.8273	15.7698	15.7608	15.7282	15.5526	15.2898	15.1641
-1.8196	15.9651	15.5332	15.5684	15.6838	15,7270	15.8164	15.9670
-5.7483	16.9646	16.7172	16.6777	16.7743	16.7115	16.7507	16.9301
-3.1551	19.2086	19.0033	18.9478	18.9366	18.9188	18.9190	18.9894
4.7424	16.1436	16.0997	15.9866	16.0904	15.9968	16.0277	16.1381
10.5816	19.7258	19.6532	19.8714	19.8427	19.7835	19.8431	19.7475
0.7833	18.6067	16.3153	16.3248	16.2583	16.3443	16,3344	16.0802
-8.3749	18.8084	18.3413	17.9937	17.7740	17.7624	17.6074	17.6056
17.8617	17.2490	17.2359	17.3534	17.1640	16.9337	17.1630	17.1729

APPENDIX (5)

COMPANY NAMES COMPANY NAME COMPANY NAME COMPANY NAMES COMPANY NAME CO	L					, , ,		
ne 2004 2003 2002 2001 PORATION 56250000 18750000 -6750000 38900000 PORATION 8224999 19500000 1300000 1800000 PORATION 8224999 1950000 1300000 180000 PORATION 3280000 2000000 120000 400000 130000 PORATION 3280000 120000 400000 150000 150000 PORATION 1740000 410000 1140000 1140000 1140000 MARKETING 1740000 410000 1140000 25000 25000 ASSODOO 2625000 2720000 1140000 25000 25000 ASSODOO 2720000 1140000 25000 25000 25000 ASSODOO 2720000 272000 273000 273000 273000 273000 273000 273000 273000 273000 273000 273000 273000 273000 273000 273000 273000 273000 273						ΔMV%		
FORATION 56250000 78750000 -6750000 33900000 PORATION 19800000 1000000 1920000 160000 PORATION 3224999 1950000 130000 130000 STORIES 3456000 112600 175000 175000 175000 STORIES 8025000 112600 175000 175000 175000 STORIES 8025000 112600 175000 175000 175000 ARARKETING 174000 174000 172000 173000 175000 ASSOCOO 2252000 172000 174000 236000 175000 ASSOCOO 225000 174000 274000 274000 274000 ASSOCOO 225000 225000 274000 274000 274000 ASSOCOO 275000 275000 275000 275000 275000 ASSOCOO 275000 275000 275000 275000 275000 ASSOCOO 275000 275000 275000 275000	*	Company Name	2004	2003	2002	2001	2000	1999
19800000 19800000 1600000 160000 160000 160000 160000 160000 160000 160000 160000 160000 160000 1600000 1600000 1600000 1600000 1600000 1600000 1600000 1600000 1600000 1600000 1600000 1600000 1600000 1600000 1600000 1600000 1720000 1800000 17400000 1	·	JORDAN PHOSPHATE MINES	56250000	78750000	-6750000	39900000	-47340000	55000000
PORATION 8224999 1950000 350000 1300000 STORATION 3280000 2000000 120000 400000 STORIES 34560000 640000 -15426722 4532597 STORIES 38025000 1125000 375000 675000 STORIES 38025000 170000 450000 268000 ARRETING 1740000 480000 720000 0 AARKETING 1740000 480000 720000 0 AASOCOO 1740000 1740000 2610000 0 AASOCOO 1740000 1740000 2610000 273000 0 AASOCOO 2262000 270000 174000 274000 274000 274000 AASOCOO 224000 2252000 270000 274000 274000 274000 274000 274000 274000 274000 274000 274000 274000 274000 274000 274000 274000 274000 2740000 274000 274000 274000 <td>121</td> <td>THE JORDAN WORSTED MILLS</td> <td>19800000</td> <td>10000000</td> <td>1920000</td> <td>160000</td> <td>-5320000</td> <td>-800000</td>	121	THE JORDAN WORSTED MILLS	19800000	10000000	1920000	160000	-5320000	-800000
3280000 200000 120000 400000 34560000 640000 -15426722 4532597 CTORIES 8025000 1125000 -15426722 4532597 STROODO 170000 4100000 450000 0 MARKETING 1740000 4100000 450000 0 2625000 306000 720000 0 510000 2625000 306000 720000 174000 261000 2625000 306000 720000 174000 261000 2625000 306000 720000 270000 270000 2625000 306000 720000 174000 274000 2626000 384000 174000 274000 274000 274000 225000 274000 78000 78000 274000 277000 278000 78000 78000 277000 277000 27000 78700 78700 277000 277000 27600 27600 27600 <	m	UNION LAND DEVELOPMENT COPRPORATION	8224999	1950000	350000	1300000	-50000	0
34560000 640000 -15426722 4532597 CTORIES 8025000 1125000 3975000 675000 MARKETING 1740000 480000 7238000 2380000 AFSDOOD 1740000 480000 7238000 256000 AFSDOOD 7075000 1740000 256000 256000 AFSDOOD 7220000 1740000 256000 250000 AFSDOOD 7250000 1740000 250000 250000 250000 AFSDOOD 2220000 2720000 273000 273000 273000 AFSDOOD 2720000 270000 274000 274000 274000 AFTORD 272000 270000 274000 274000 274000 AFTORD 272000 270000 276000 276000 276000 AFTISO 4875000 175000 175000 175000 AFTISO 4875000 175000 175000 276000 AFTISO 4470000 1450000 276000	4	UNITED FINANCIAL INVESTIMENT	3280000	2000000	120000	400000	-200000	00009
STORIES 8025000 1125000 3975000 675000 ANARKETING 18100000 4100000 4510000 2380000 MARKETING 1740000 480000 1720000 2380000 ASPECTING 1740000 480000 1720000 2580000 ASPECTING 1740000 2625000 2610000 2610000 ASPECTING 1740000 1779000 1779000 2610000 ASPECTING 1779000 1779000 273000 273000 ASPECTING 270000 273000 273000 273000 ASPECTING 270000 270000 274000 274000 ASPECTING 270000 270000 274000 278000 ASPORT 1810000 275000 135000 178000 ASPORT 1810000 275000 115000 115000 ASPORT 10692000 -76000 115000 2741775 ASPORT 10692000 -726000 115000 275000 ASPORT	رد,	ARAB INTERNATIONAL HOTELS	34560000	640000	-15426722	4532597	4025875	-17760000
MARKETING 1740000 1200000 1080000 840000 MARKETING 1740000 4100000 4510000 -2380000 ARACETING 1740000 480000 720000 -2380000 ADDISTORIA 1740000 480000 1740000 560000 ACESTOR 2625000 306000 1740000 560000 ACETTES 10650000 272000 180000 573000 RETTES 10650000 272000 180000 273000 SETTES 10650000 273000 274000 274000 SETTES 1065000 270000 274000 274000 STOOD 272000 270000 276000 276000 STOOD 275000 276000 276000 278000 PORSTMENT 1740000 470000 278000 278000 PORT 1014332 2017759 409005 27844775 SPORT 1014332 2017759 409005 278000 STOOD 202500	9	JORDAN PAPER & CARDBOARD FACTORIES	8025000	1125000	3975000	675000	-6225000	2125000
MARKETING 18100000 4100000 4510000 -2380000 MARKETING 1740000 480000 720000 0 70750000 2625000 3260000 820000 5616000 2625000 2625000 320000 573000 561000 4590000 729000 180000 573000 573000 2520000 252000 231000 273000 273000 2520000 270000 270000 274000 274000 2520000 270000 270000 274000 274000 252000 270000 270000 274000 274000 252000 270000 270000 274000 274000 252000 270000 270000 274000 274000 252000 270000 275000 274000 274000 252000 27000 275000 115000 115000 252000 27000 27000 115000 2744775 27000 27000 27000	_	ARAB ELECTRICAL INDUSTRIES	3780000	1200000	1080000	840000	-60000	-360000
MARKETING 1740000 480000 720000 6516000 70750000 3660000 820000 5616000 2625000 3660000 820000 5616000 4590000 7290000 1174000 5616000 4590000 7290000 180000 573000 6360000 252000 231000 273000 724000 384000 104000 273000 7252000 270000 273000 274000 7000 270000 274000 274000 7000 270000 274000 274000 7000 270000 276000 274000 70000 270000 276000 274000 70000 270000 276000 276000 70000 270000 276000 185000 70000 27000 276000 276000 70000 276000 276000 276000 70000 276000 276000 276000 70800 276000	∞	GENERAL INVESTMENT	18100000	4100000	4510000	-2380000	-4620000	-1960000
70750000 44800000 11740000 26160000 2625000 3060000 820000 650000 4590000 7290000 1800000 540000 3990000 -2520000 -2310000 2730000 224000 2700000 1040000 2730000 224000 2700000 280000 2440000 222000 2700000 280000 2440000 222000 2700000 280000 2440000 2222000 10440000 230000 -780000 2222000 10440000 2250000 -780000 2222000 10440000 2250000 -780000 2222000 1150000 -185000 -185000 2222000 1150000 -185000 -185000 2222000 1150000 -185000 -185000 2220000 2250000 -185000 -185000 2250000 -250000 -185000 -185000 2250000 -250000 -185000 -185000 22	φ,		1740000	480000	720000	0	-4703558	0
2625000 3060000 820000 650000 4590000 7290000 1800000 540000 3990000 -2520000 -2310000 2730000 270000 3840000 3730000 2730000 224000 270000 280000 244000 224000 232000 280000 244000 222000 232000 280000 -78000 222000 232000 280000 -78000 2232200 1044000 331200 -64800 20 -375000 570000 -18500 -18500 30 57000 48500 -19500 -18500 57000 48500 -18500 -18500 57000 410000 230400 -18500 57000 -25000 -18500 -18500 57000 -25000 -18500 -18500 57000 -25000 -18500 -18500 57000 -25000 -18000 -2844775 57000	5	JORDAN ELECTRIC POWER	70750000	44800000	11740000	26160000	1942299	8957701
A590000 7290000 1800000 540000 540000 39900000 25520000 2730	Ξ	THE PUBLIC MINING	2625000	0000908	820000	650000	-380000	0
RETTES 2520000 -252000 273000 RETTES 10650000 3840000 104000 304000 RETTES 10650000 2700000 8036292 35103708 2240000 2320000 280000 2440000 -24000 232000 -280000 -78000 50 -232200 1044000 -30000 -78000 50 -375000 570000 -25000 -30000 50 -375000 570000 -19500 -13500 570000 570000 -19500 -13500 570000 -195000 -13500 -13500 5875000 4875000 -185000 -18500 570000 -180000 -185000 -18500 57000 -25000 -75600 -18500 57000 -25000 -75600 -75600 57000 -75600 -75600 -75600 57000 -75600 -75600 -75600 57000 -75600 -75600<	7	NATIONAL ALUMINIUM INDUSTRIAL	4590000	7290000	1800000	540000	-1350000	1080000
RETTES 10650000 3840000 1040000 3040000 RETTES 10650000 2700000 8036292 35103708 2240000 2320000 280000 2440000 224000 804000 -300000 -780000 2322000 10440000 3312000 -780000 30 -375000 570000 -195000 -300000 570000 570000 135000 -300000 570000 495000 -195000 -135000 570000 48750000 -185000 181000 602500 115000 -185000 184500 4100000 2304000 -185000 19500 -18000 115000 -185000 1014332 201775 409005 2244775 1014332 201775 409005 189000 27000 225000 -180000 182000 27000 225000 -180000 182000 27000 282500 -18000 182000	13	CENTURY INVESTMENT GROUP	3990000	-2520000	-2310000	2730000	-5370000	-1620000
RETTES 10650000 2700000 8036292 35103708 2240000 2320000 280000 2440000 -24000 804000 -300000 -780000 -2322000 10440000 3312000 -780000 50 -3750000 570000 -195000 -300000 50 -3750000 485000 -195000 -1000000 570000 -3750000 485000 -195000 -1000000 5875000 375000 -195000 -185000 IVESTMENT 1740000 4100000 2304000 -185000 RA'I 8145000 -70000 -18000 115000 SPORT 1014332 201775 409005 -2444775 3925000 -75000 -75000 145000 25000 S 16597000 -282000 -492000 492000 S 16597000 -282000 -492000 -492000	4	IRBID DISTRICT ELECTRICITY	6360000	3840000	1040000	3040000	296000	1974000
2240000 2320000 280000 2440000 -24000 804000 -300000 -780000 -2322000 10440000 -312000 -780000 50 -375000 570000 -350000 -300000 50 570000 -375000 -195000 -300000 5875000 375000 -195000 -1000000 181000 602500 115000 -185000 RA'I 814500 -7000 -18000 -185000 RA'I 814500 -7000 -18000 -185000 SPORT 1014332 2017759 -409005 -284000 392500 440000 -75600 248400 -25000 27000 -7000 -75600 225000 -28400 392500 440000 -75600 25000 -25000 27000 -76000 -75600 -75600 -75600 27000 -75600 -75600 -75600 -75600 27000 -75000 -75	5	INTERNATIONAL TOBACCO & CIGARETTES	10650000	2700000	8036292	35103708	-3720000	2160000
-24000 804000 -300000 -780000 -2322000 10440000 3312000 -648000 50 -3750000 570000 225000 -300000 5 570000 495000 -195000 -1000000 -DUSTOUR) 1810000 6025000 -185000 -185000 NESTMENT 1740000 4100000 2304000 -185000 RA'I 8145000 -70000 -185000 115000 SPORT 1014332 2017759 -409005 -24400 SPORT 1014332 2017759 -409005 -25000 SPORT 1014332 2017759 -409005 -25000 SAMATTS 10692000 -756000 250000 SPORT 1014332 2017759 -409005 250000 SPORT 10692000 -2820000 -4253261 1892000 SPORT 9120000 -2820000 -4820000 -4820000	16	NATIONAL STEEL INDUSTRY	2240000	2320000	280000	2440000	320000	400000
20 -2322000 10440000 3312000 -648000 50 -3750000 570000 2250000 -300000 50 570000 495000 -195000 -300000 50 570000 375000 -195000 -1000000 5875000 1810000 6025000 -185000 -1850000 NESTMENT 1740000 4100000 2304000 -1850000 RA1 8145000 -70000 -180000 1150000 SPORT 10692000 -70000 -756000 -2484000 1014332 2017759 -409005 -3244775 3925000 708000 -450000 250000 S 16597000 -2820000 -4253261 1872334 JRING 9120000 -2820000 -1800000 -4920000	17	VEHICLES OWNERS FEDERATION	-24000	804000	-300000	-780000	-1152000	336000
CO -375000 570000 225000 -30000 SO 57000 495000 -19500 13500 LDUSTOUR) 181000 602500 115000 -185000 IVESTMENT 1740000 4100000 2304000 -185000 RA1 8145000 4100000 2304000 1824000 SPORT 10692000 -70000 -18000 115000 SPORT 1014332 2017759 409005 -284400 SPORT 10692000 -32400 -75600 2244075 SPORT 10692000 -32400 -75600 25000 SPORT 1074332 2017759 409005 -3244775 SS 16597000 70800 -425000 189000 SINING 912000 -282000 -180000 492000	18	NATIONAL CHLORINE INDUSTRIES	-2322000	10440000	3312000	-648000	-2160000	-792000
\$70000 495000 -195000 135000 -DUSTOUR) 1810000 3750000 -1000000 -DUSTOUR) 1810000 6025000 1150000 -185000 IVESTMENT 17400000 41000000 2304000 -185000 RA¹ 8145000 -70000 -180000 175000 SPORT 10692000 -70000 -756000 2484000 1014332 2017759 409005 -244775 270000 276000 145000 25000 S 1659700 70800 -4253261 1872334 JRING 912000 -282000 -492000 -492000	19	REAL ESTATE INVESTMENT/ AKARCO	-3750000	5700000	2250000	-300000	-741967	-94295
LDUSTOUR) 58750000 3750000 48750000 -10000000 PLUSTOUR) 1810000 6025000 1150000 -1850000 RA! 17400000 41000000 2304000 18240000 RA! -250000 -70000 -180000 1750000 SPORT 104332 2017759 -409005 -2484000 A40000 -250000 -250000 -250000 -250000 SPORT 1014332 2017759 -409005 -2484000 SPORT 1014332 2017759 -409005 -250000 SPORT 1014332 2017759 -409005 -250000 SPORT 1014332 2017759 -409005 -250000 SPORT 16597000 708000 -4253261 1872334 SRING 9120000 -2820000 -1800000 -4920000	2	IUNIVERSAL CHEMICAL INDUSTRIES	570000	495000	-195000	135000	-315000	675000
L-DUSTOUR) 1810000 6025000 1150000 -1850000 IVESTMENT 17400000 41000000 23040000 18240000 RA! 8145000 33255000 9405000 8790000 SPORT 10692000 -70000 -756000 1150000 SPORT 1014332 2017759 -409005 -2484000 SPORT 276000 -756000 -2484000 -250000 SPORT 1014332 2017759 -409005 -2484775 SPORT 276000 768000 1890000 -250000 SPORT 16597000 708000 -4253261 1872334 SRING 9120000 -2820000 -1800000 -4920000	7	ZARA INVESTMENTS	58750000	3750000	-48750000	-10000000	47300000	39200000
RA¹¹ 17400000 41000000 23040000 18240000 RA¹¹ 8145000 33255000 9405000 8790000 SPORT 10692000 -70000 -756000 1150000 1014332 2017759 409005 -3244775 270000 270000 1450000 250000 S 16597000 708000 4253261 1872334 JRING 9120000 -2820000 -4920000 4920000	22	JORDAN PRESS & PUBLISHING /(AD-DUSTOUR)	1810000	6025000	1150000	-1850000	4150000	3434678
RAÍ 8145000 33255000 9405000 8790000 SPORT -250000 -70000 -180000 1150000 SPORT 1014332 2017759 -409005 -2344775 3925000 440000 145000 25000 S 1659700 70800 -4253261 1872334 JRING 912000 -282000 -180000 -492000	23	DAR AL-DAWA DEVELOPMENT & INVESTMENT	17400000	41000000	23040000	18240000	-5880000	900000
PORT -250000 -70000 -180000 1150000 PORT 10692000 -324000 -756000 -2484000 1014332 2017759 -409005 -3244775 3925000 440000 145000 25000 5 1659700 70800 -4253261 1872334 JRING 912000 -282000 -180000 -492000	24	JORDAN PRESS FOUNDATION / AL-RA'S	8145000	33255000	9405000	8790000	-1950000	0000666
PORT 10692000 -324000 -756000 -2484000 1014332 2017759 409005 -3244775 3925000 440000 145000 25000 5 1659700 70800 -4253261 1872334 JRING 912000 -282000 -180000 -492000	3	JORDAN TANNING	-250000	-70000	-180000	1150000	-1220000	-1480000
1014332 2017759 409005 -3244775 3225000 4400000 1450000 250000 250000	78	JORDAN EXPRESS TOURIST TRANSPORT	10692000	-324000	-756000	-2484000	1404000	-324000
3925000 4400000 1450000 250000 S 776000 0 202500 1890000 S 16597000 708000 -4253261 1872334 URING 9120000 -2820000 -1800000 -4920000	27	JORDAN CHEMICAL INDUSTRIES	1014332	2017759	409005	-3244775	-136335	-777110
S 16597000 0 202500 1890000 S 16597000 708000 -4253261 1872334 URING 9120000 -2820000 -1800000 4920000	78	JORDAN CERAMIC INDUSTRIES	3925000	4400000	1450000	250000	550000	350000
S 16597000 708000 4253261 1872334 URING 9120000 -2820000 -1800000 4920000	53	ARAB ALUMINIUM INDUSTRY/ARAL	270000	0	202500	1890000	-1417500	-2565000
URING -12820000 -1800000 -4920000	ଚ	JORDAN NATIONAL SHIPPING LINES	16597000	708000	-4253261	1872334	-1109532	-693457
	સ		9120000	-2820000	-1800000	-4920000	-1260000	1200000

;	-300000	12300000	-40000	0	-1575000	-950798	-640000	472500	0	-7500000	565253	100000	0	0	3298639	4800000	700000	420000	1298000	-680000	<u> </u>
,	0	-325000	-120000	-220000	-375000	3223405	-80000	1496250	-5670000	-3800000	365753	-850000	0	672053	-754733	-1088000	750000	5160000	-216000	6530000	ersila
	0	4250000	800000	617500	-1987500	1097393	0	525000	5265000	-2000000	731504	1950000	0	0	1830000	11008000	20400000	-1800000	432000	-500000	
•	1560000	14875000	1760000	-1175000	1312500	-2520000	240000	813750	9517500	0	1649210	5000000	8315000	7 0	11577750	-1344000	-2300000	-1260000	-36000	2850000	
	4860000	8500000	2960000	-1645000	168750	1620000	0	2178750	26122500	-6700000	678304	3600000	0	0	10678500	39424000	19325000	2100000	936000	-2200000	
!	-1440000	-7200000	-1766015	2937500	1331250	1800000	0	-1023750	-810000	-1000000	665004	-2150000	0	0	-5932500	52480000	13075000	3060000	-162000	325000	
© Arabic	32 THE ARAB INTERNATIONAL FOOD FACTORIES	33 NATIONAL POULTRY	34 INTERNATIONAL CERAMIC INDUSTRIES	35 AL-SHARQ INVESTMENTS PROJECTS	36 JORDAN WOOD INDUSTRIES (JWICO)	37 THE INDUSTRIAL COMMERCIAL & AGRICULTURAL	38 INTERMEDIATE PETRO CHEMICALS IND.	39 JORDAN DAIRY	40 THE ARAB INTERNATIONAL FOR EDUCATION & INV.	M	42 THE ARAB CHEMICAL DETERGENTS INDUSTRY	43 ARAB CENTER FOR PHARM. & CHEMICALS	44 ARAB ENGINEERING INDUSTRIES	45 JORDAN HIMEH MINERAL	46 AL-ZARQA EDUCATIONAL & INVESTMENT	47 JORDAN PETROLEUM REFINERY	48 THE UNION TOBACO & CIGARETTE INDUSTRIES	49 UNIVERSAL MODERN INDUSTRIES	50 JORDAN INDUSTRIES & MATCH ((JIMCO)	51 PEARL SANITARY PAPER CONVERTING	

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 1998	-96800000	-1040000	-700000	315000	0000009	1100000	-600000	3920000	0	800000	-390000	-2100000	-540000	-2850000	2520000	-800000	-2772000	-1512000	-94296	-915000	11000000	-1489334	-3780000	250000	-650000	0	163602	-5550000	-2460000	-9777743	7020000
			~		7	. C											L	******													_

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onnon-	6100000	-920000	2720000	-1875000	000009-	-280000	35000	1620000	8000000	-997506	200000	0	911727	464489	1024000	10550000	-1200000	-376250	-120000
	Q	oʻ.																	

			ATDR %	7/						AROA %			
	2003	2002	2001	2000	1999	1998	2004	2003	2002		2000	1999	1998
A	-4.8686	-2.7608	-8.4744	16.0348	4,1293	-1.8093	-0.2180	0.0125	1.3950	17.2200	-11,8127	-6.3388	0.2254
Ψ	-6.6132	0.3599	-5.5602	-2.3669	-0,5155	6.8818	-0.7756	-0.8584	-1.4846	1.0298	1.3297	-1.5854	-3.2698
0	0.3770	-0.7029	2.3778	2.2870	-0.1053	-0.0529	-4.2078	1.1963	4.3547	11,4659	-2.1463	1.1484	0.6171
*-	┪	-26.5253	31.3139	-2.3223	-20.4395	21.9941	-3.8700	13.4610	-0.4442	6.1618	-8.6090	5.3872	-0.6611
φ)	6.8119	1,0568	-1.7554	10.6721	-0.0454	8.8859	1.9241	2.7643	0.3889	-3.3586	-1.1359	-2.1239	-2.3505
7	-1.1255	-7.3615	4.8331	-3.4418	0.9702	-15.3682	3.8005	-2.2419	3.0436	3.7110	5.3039	3.0774	-2.7708
7	2.2075	-9.3839	0.8275	9.4809	2.1887	1.0587	3.4412	-5.8016	-2.6350	10.3343	0.7320	-2,9582	0.6014
۲۳	-1.4667	3.0399	-0.0414	-6.6855	-1.6466	-0.9470	-3,7766	3.7685	-2.2231	0.0172	-3.0875	-0.3551	-0.8170
-	6.6544	18.3369	32.572:1	-0.1678	-31.9897	6.4050	-2.3051	0.2706	1,3040	-5.1697	3.5240	25.5548	-25.6406
┪	-0.4463	-0.7772	-2.4296	4.7479	-1.4880	-0.1080	0.0239	2682.0	-2.5664	-0.1412	4.4348	-0.4414	0.1244
_	4.4642	-1.1287	-1.8153	-3.3744	2.2777	4.4944	5.3548	11.8859	-7.5024	-17.5824	19.5136	3.5113	2.3601
+	\dashv	0.4501	0.2978	-14.7020	-7.2555	11.1129	-1.2091	1.7444	-0.8746	2.8733	0.7405	-2.1385	4.6664
↲	_	22.1333	-6.2086	25.5132	4.2270	31.4989	6.8476	21,2940	-22.6034	22.9310	-21.1498	1.9315	4.3500
+	0.1534	0.1276	0.2778	0.2993	-0.8175	0.1132	-0.0059	-0.0920	-0.0266	0.1581	-0.1852	-0.0578	-0.0179
-	8 9842	6.3301	-13.8767	7.5677	-14.5458	6.2259	-2.9505	-3.9125	2.3576	2.9384	1.5248	-0.9030	2.1517
-	\dashv	-0.9637	-1.5879	-25.3508	16.6836	-16.5468	-0.7774	0.8108	-1.9407	-4.5019	15.9141	9.4617	-6.6111
1	ㅠ	16.5122	14.2912	5.9948	4.1822	-0.5201	-37.9954	108.0881	-63.8870	-0.3896	-5.3264	-3.4243	-1.1416
너	┯╂	22.1936	-1.8003	-3.0351	4.5632	-3.6610	-0.4525	7.2473	-3.1054	5.8057	-5.6452	-2.4182	-2.4492
+	5.6493	5.8146	-7.6505	1.3992	-1.1498	5.0058	-0.0547	1.9918	-0.2483	0.5341	-0.7415	-0.9713	-0.4933
_	-3.1399	-9.4891	4.1321	-10.0299	-2.4221	5.7005	0.6442	0.3163	-1.3247	0.2694	-0.7324	2.6746	-1.0666
+	┵	3.2901	3.2936	-18.3925	-6.2882	17.2503	3.9301	-1.0181	-0.9800	-1.2225	0.4038	4.3776	0.4895
ᇑ	긁	-11.8027	-4.8949	-0.1104	6.0230	-6.8367	-23.2361	13.8173	5.8146	3.5206	1.4409	3.3378	-7.0275
\dashv	╼┤	-1.3920	0.3038	-5.1046	-1.6729	-4.0175	0.3511	-1.3108	1.8033	0.7881	1.8372	-7,4747	1.2232
0.4951 0.	0.8155	0.0019	0.4547	-15.9399	3.2301	2.7410	2.8511	4.4499	1.6162	0.7088	-1.4384	5.1119	-0.1433
+	+	-0.0185	4.9386	-8.0834	1.7690	4.8044	3.6492	-3.8592	-1.3337	-1.6821	6900.0	-2.8750	-3.1729
_	_	-1.9105	-6.2004	-13.3819	-1.0156	-6.6407	10.9933	0.9997	-5.7804	-6.6108	3.6198	3.0831	5.9914
1.9042 -0	{-	-1.6419	-7.1313	-11.8257	1.8128	1.5361	-1.6101	0.6014	-4.7969	5.6631	-2.8409	-0.8617	0.6823
1.6935 -0.		1.4307	-5.8920	-9.8566	-5.8832	-8.6296	-2.7259	-0.2972	-0.4425	1.6597	-2.3970	0.6797	0.7342
\pm	╣	-2.3168	0.3246	-7.7556	-1.8562	-10.8828	-2.7313	-0.9494	-2.7386	3.3786	-0.8458	-0.4599	-2.1060
-1.9692 9.	\dashv	15.9877	-20.6741	5.3980	-1.0333	-8.1519	4.9261	16.9444	-27.1174	41.8967	-12.0305	-5.4237	4.7436
9	6.9170	-15.4768	9.3500	-7.6777	2.4362	-4.6815	4.4499	3.0497	-3.0573	0.6299	0.1581	-0.2651	0.2321

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0 4354	-5.7276	-1,4062	-1.2416	1.2795	1.4597	-7.0382	-4.5103	-5.0387	-2.6912	0.6503	1.1234	00000	-1.0363	5.5920	0.0248	4.8878	-2.0377	4 9944	3.6797
1.3104	4,4769	10184	-3.5944	2.5562	-0.6082	0.3739	1.1588	3.1826	-5.2975	1,4191	-5.3454	-5.8411	2.4307	0.0601	1.0334	5.3861	-2.7693	-1.5052	5.8625
3.2410	0.9960	-0.9122	4.7416	1.3614	1.0915	-5.2377	-2.4091	1,9135	-1.5800	3.0327	5.5189	-3.2322	-1.5299	2.3789	0.8855	2.6824	9.7609	2.6566	11 1888
1.4611	7.5176	14.7168	-2.2577	-2.6241	-7.2838	5.9555	0.6701	0.3266	-1.9567	-3.8139	1.1906	8.3252	-0.4248	-1.0385	-1.2052	≥1.6196	-15.1880	9.1536	9.6885
1.0396	5.6928	-3.4694	-0.3264	16.6741	-1.0747	0.4148	0.3505	-0.6750	-0.9601	-0.7523	2.4907	-10.9338	-0.3053	-2.5535	-0.7323	3.6509	9.4363	10.0059	-5.1653
-0.5194	-2.9566	-3.4701	-1.1901	-15.1421	1.6055	-28.8060	-2.6621	-0.6177	3.8423	-2.9300	-1.9186	1.3128	-1.7089	-5.6740	0.4060	-0.5836	-1.5567	-16.0122	-6.6209
4.7015	0.7350	-7.2396	3.6652	7.0827	-5.1909	34.5536	-0.9256	-1.2584	2.2573	-0.7926	-3.6574	2.4918	0.8644	0.2064	-0.2573	-5.3202	5.8789	0.9403	2.2192
-0.2364	(5.1290	1.6240	-3.2980	2.2180	-3.5631	12.0901	1.0119	13.1879	18.1523	1.4183	4.0284	-0.1098	-7.3674	-18.4167	-0.3092	-6.6471	-20.1984	13.8198	-5.0675
0.4507	-6.3083	1.3740	20.8211	0.3210	9.7603	14.4308	-7.2878	-4.8210	4.8624	-8.4900	4.6790	17.5365	5.5270	2.9487	-9.6042	8.2928	3.1487	-53.1753	-1.0157
0.2815	-4.2318	2.7935	-0.5844	-1.4910	-3.0810	17.9179	-4.6794	-13.3975	4.3650	-13.2700	-0.7248	1.5555	-5.7141	-6.6706	6.3816	-15.8290	-15.0632	0.9121	41.5174
0.1305	-17.3997	-8.8694	-5.0700	9.4180	-1.1028	15.0439	-0.6454	-4.4789	1.0501	1.1812	-0.9546	1.1295	2.0601	2.4752	-9.1879	-10.8253	-1.8972	11,7137	-7.8330
0.4889	-9.5511	-11.4360	-0.8596	43.6811	11.1450	17.0242	-3.5087	-0.6370	2.9992	2.6825	1.4698	-14.4851	-1.2702	13.0141	7.3599	7.6531	-1.2773	-18.0864	1.4749
-0.6154	3.2379	-2.2465	0.1891	-0.3095	-0.3514	48.1366	5.3513	-2.0871	-0.8763	-3.3037	1.7399	7.9154	-0.7800	9.2693	-5.1290	-6.6694	-4.9740	9.6777	11.5462
-0.8014	-3.1053	-5.8536	-0.2105	0.3888	3.3940	-135.4505	-1.5193	-0.1966	-1.3882	3.7060	-1.9958	4.5426	0.4657	-2.7476	2.4722	-2.0881	0.6394	-14.8779	18.2169

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	0007	2880	40.03/3	18.0370	-0.2841	74,4545	13.1328	4.0270	-0.6281	6.1309	-20.7118	3.6557	-2.0673	20.6269	113,7389	12.5046	13.5866	-33.2130	4.8936	4.6664	3.2220	12.9846	48.3360	-8.9816	10.6101	5.6424	-2.2697	-8.7884	5.8494	-7.9310	-6.2977	-13.5418	4 7927
	0007	888	-1.3402	1.9037	0.2329	-17.6590	-0.0445	-13.3133	-3.3244	5.1077	-32.5867	5.2367	3.7426	-9.4833	-3.4071	-1.0780	-11.9406	15.5176	6.5709	-5.5517	-2.2051	4.1132	25.1163	24.4248	3.3960	11.2302	4.3075	-0.0903	4.6097	-3.6254	-3.9804	-10.6322	4.2714
	0000	2007	4 5005	4.3000	-8.7097	1.1639	25.5362	-5.0861	7.4870	3.0215	25.3645	5.9458	34.1908	-12.1507	9.8926	13.3257	74.8769	-7.7402	9.6526	-6.7893	60.8051	-7.8928	16.7183	6.4876	9.1664	3.0173	-3.0375	4.2451	-5.0595	-5.9469	-5.8055	-16.0152	-3.1756
GTA%	200	1007	11.3413	7.5440	7.9116	65.6895	2.7396	13.0746	11.1406	7.4415	51.1847	10.5947	-3.7746	3.4792	-5.3725	4.7139	16.9529	15.9439	20.9961	1.1579	-5.9561	6.9594	-2 8285	-1,1569	9.0801	7.0260	-5.7276	-11.2195	1.3845	-3.4557	2.7214	3.2276	13,4457
	2002	2002	0.7080	4.4000	4.1682	-29.6624	1.0178	-1.7638	-11.5115	17.7207	38.9692	3.3929	-10.2378	2.7880	-4.7231	2.8929	15.3116	-3.2217	-42.5309	36.8848	5.2452	-11.5262	4.6048	-6.1493	8.0208	3.0263	-0.6996	-8.5583	5.9886	2.9975	-5.2535	-65,1998	-18.0034
	2003	0 4504	18 5480	22225	3.3325	28.4004	-3.1023	-1.0689	-1.9280	11.0278	16.1212	4.8908	10.3784	19.6244	-8.6989	2.9864	-10.3392	-0.2311	16.8086	0.4424	-1.8804	4.3024	-4.8739	-50.6782	9.8105	12.5436	-5.4645	-8.4712	20.2300	3.0728	6.2608	41.3224	13.6957
	2004	0.0765	21 5756	70 7000	18.7232	40.7187	19,9547	-1.1475	-8.6552	13.7975	13.7273	12.2467	16.4349	9.5816	-3.4998	2.1272	14.2117	-3.4925	-1.0294	-9.9549	2.6671	-2.7169	-2.9080	248.1912	8.2535	17.0368	0.6578	13.9978	4.7592	2.4843	20.8133	108.1541	14.9291
	1008	8050	0.0030 .0.6676	0.000	-0.0304	-3.2653	-2,4446	0.6772	-0.1337	0.5096	-0.6001	0.0509	1.1589	-0.0940	-2.9247	-0.0163	0.1302	1.3163	0.3306	0.2628	-0.6775	-0.3694	-0.4267	0.2543	0.6194	-0.1784	0.9585	0.6257	0.0119	0.6996	0.1858	0.4027	0.5897
	1999	0.2366	0.255	50403	0.0100	3.9011	-0.5077	-0.1563	-0.3389	0.7774	5.8307	0.0172	-0.6397	0.2417	-5.1858	-0.1247	0.4376	-1.3169	-3.4875	0.2615	1.7318	0.2021	-0.1344	-0.0958	0.3459	-0.1648	-0.2664	0.4321	-0.0225	0.2948	0.0656	0.0956	-0.3944
S	2000	0.6537	2 0309	4 1200	4. 1288	1.3713	0.7666	0.0931	-0.4704	4,4487	1.5899	0.0268	1.9684	1.4140	-2.2367	0.0643	-0.6056	2.9283	-4.8658	0.0590	-1.7593	1.1131	0.7822	0.2255	1.4482	3.6140	2.3812	-1.1303	0.2667	0.4732	0.7802	-0.3378	1.6999
ACR Times	2004	0.0702	1 4941	8 0108	-0.8180	-6.0620	1.0122	1.3613	-0.0138	0.4079	-7.7985	0.1460	0.7221	0.3818	0.3569	0.2392	0.1782	-0.0895	-0.5506	0.3794	1.4155	-0.4939	-0.6700	0.1770	-0.0874	0.2115	3.8695	1.2966	1.2503	2.2119	0.1006	2.4351	-1.8069
	2002	0.8567	-0.2587	11 3788	1.37.00	3.4622	-1.2144	-0.1572	0.6187	-2.2996	-0.0120	-0.0725	1.9565	0.2072	-0.6540	0.0626	-0.0875	0.1052	-0.2121	-1.2293	-1.8566	1.7530	-0.1618	1.9334	0.5638	0.4761	0.0702	0.1762	0.3116	-0.0546	0.2281	-2.4653	5.0808
	2003	1 0223	11 6320		-	-1.6057	-1.8808	-1.1616	-0.1234	-0.5819	0.1692	0.0193	-3.2581	-1.2819	0.5507	-0.0328	1.0509	0.0935	0.4455	0.2499	0.4123	1.2210	0.1993	-1.4169	-0.4778	0.0716	1.3529	2.1385	-0.2025	0.3648	-0.8121	-0.1630	-3.9823
	2004	-0.6561	-10.2731	-17 AR53	333.	-1.0083	0.3415	0.0744	0.7318	-1.3799	-0.3180	0.0031	1.6181	-0.1323	0.5613	-0.1077	-0.3985	2.4590	1.0550	0.2867	0.7645	1.0688	0.5380	1.3235	-0.3035	-0.0776	-2.4281	-0.9196	-0.3123	-1.8032	-0.7698	1.3389	-0.7533

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1 7009	56.6138	-6.0100	14.8520	-1 1950	4 4583	-7.5704	5.9570	29.6129	39 3423	5.6257	-3.6305	4 4766	233,8118	8.7027	-0.5711	20.9743	-27 5070	-12 0050	-10.1020
3.8347	17.8087	-4 5749	29 1424	0.3788	57,3935	-3.5485	1.5279	-1.5800	6.0713	-8.8008	-4.2440	26 5652	5.5323	15.9120	-38.0736	64 9341	1 0567	2 8262	-10.5106
7.0992	23.8115	-3.5631	-0.4905	-1.0371	-2.4887	-13.0098	10.6633	-3.8821	2.4792	2.0786	6.5655	-16.4494	62.6299	6.5288	-2.8072	15.5492	-10.3149	5.9530	-7.4897
2.2009	-18.6352	4.3868	-5.3444	53.7989	-13.6840	2.0243	6.5037	0.3450	-7.3184	4.4509	1.0715	1.0524	0.4813	15.5245	6.7862	4.2877	-10,3288	22.9786	13.6198
1.2020	-0.2733	-8.8087	-5.1353	-47.6308	15.1138	-16.1571	6.3710	0.1712	-5.5323	3.4314	6.2704	-14.7144	1.2697	30.4563	4.7142	27.0646	0.2271	-5.8055	10.1403
93.3622	12.4217	2222	-5.2814	-9.7181	-14.5000	-12.5138	6.4911	7.7783	-6.1161	14.3503	1.0878	-4.6791	0.1180	17.9638	-18.4936	25.7731	-5.3150	9.4117	-36.5691
-1.3890	5.0229	1.2814	4.7258	5.7212	-17.9293	7.3783	-7.1872	0.3950	-2.6023	15.3130	-0.2713	-7.3444	2.2246	-0.1272	14.2266	28.7858	7.0561	-17.2250	41.9432
8.0458	-0,1865	0.2974	-6.9236	0.0196	0.0604	-0.2276	-0.0861	0.0824	-0.1480	-0.0033	1.1034	5.2322	51.6755	-0.2028	0.0186	0.2495	0.7036	-0.1781	0.0781
-15.8971	-0.0806	-0.5399	-1.6092	0.1476	-0.1883	-0.1141	0.3648	-0.1908	-0.2058	0.6687	2.3441	-4.6418	-41.3562	1.5290	0.1969	-0.2490	-0.1354	1.1273	-0.0096
-46.0245	0.2425	-0.1663	0.2109	-0.0668	0.0036	-0.1373	0.0704	0.0365	0.0296	1.4506	0.5808	-0.6038	50.0624	1.5991	-0.0691	0.3846	1.7527	-0.3444	1.4484
0.4452	0.4916	0.9214	0.1623	-0.1140	-0.0894	-0.0181	-0.2989	0.3864	-0.0282	-0.2126	0.5759	-0.3315	-40.8360	-0.4202	0.0555	0.1377	0.4003	0.0737	2.4376
-1.4598	0.7190	0.7243	-0.3852	0.9629	0.3433	-0.1122	0.0257	0.0478	0.4693	-0.5959	-1.5471	1.6728	10.2973	-0.3206	0.2229	-0.2796	0.6419	1.5558	0.1517
0.4105	-0.3410	0.0197	2.1657	-0.0159	-0.2938	-0.0928	-0.2052	0.0013	-0.0274	-0.1754	-0.9853	-0.5656	6.5735	-1.7180	-0.3482	-0.0765	3.3753	-1.4747	-2.7262
-0.9467	0.3818	0.5059	-0.7296	0.3244	-0.0446	0.6989	0.0754	0.0597	-0.2608	-1.0588	1.3942	-0.4045	-11.2298	-0.2615	0.1486	-0.0894	0.4691	0.5086	-0.5664

	7		SIZE Ln			
2004	2003	2002	2001	2000	1999	1998
19.5723	19.5821	19.6704	19.7090	19.8182	19.9233	19.9368
18.1465	17.8724	17.7023	17.6993	17.5928	17.5487	17.5292
16.1451	15.5645	15,5317	15.4908	15.4147	15.5058	15,5035
15.5146	15.1730	14.9230	15.2749	14.7700	14.7584	14.9527
18.0298	17.8478	17.8793	17.8692	17.8422	17.6148	17.6152
16.2899	16.3015	16.3122	16.3300	16.2071	16.2593	16.4022
15.7471	15.8377	15.8571	15.9794	15.8738	15.8016	15,8354
16.8685	16.7392	16.6346	16.4715	16,3997	16.3699	16.3201
16.3775	16.2489	16.0994	15.7703	15.3570	15.1309	15.5253
19.4431	19.3275	19.2798	19.2464	19.1457	19.0880	19 0369
14.8721	14.7200	14.6212	14.7292	14.7677	14.4736	14.4369
16.5776	16.4861	16.3069	16.2794	16.2452	16.3748	16.4744
16.4094	16.4451	16.5361	16.5845	16.6397	16.5454	16.5800
18.1986	18.1776	18,1481	18.1196	18.0735	17.9485	17.9593
17.9120	17.7791	17.8883	17.7458	17.5892	17.0303	17,1574
15.7048	15.7403	15.7426	15.7754	15.6275	15.7080	15.5638
14.7519	14.7622	14.6069	15.1608	14.9702	14.8781	14.8144
16.4274	16.5322	16.5278	16.2139	16.2023	16.2727	16.3298
16.0547	16.0283	16.0473	15.9962	16.0576	15.5826	15.6049
15.0326	15.0602	15.1041	15.2266	15.1593	15.2415	15.2836
19.1269	19.1564	19.2064	19.2535	19.2822	19.1276	18.9036
16.3754	15.1278	15.8346	15.8981	15.9097	15.8469	15.6283
17.7831	17.7038	17.6102	17.5331	17.4462	17.3584	17.3251
16.9626	16.8053	16.6871	16.6573	16.5894	16.5597	16.4532
15.4687	15.4621	15.5183	15.5253	15.5843	15.6152	15.5730
16.5339	16.4029	16.4914	16.5809	16.6999	16.7433	16.7442
15.2374	15.1909	15.0067	14.9485	14.9348	14.9867	14.9416
16.5454	16.5209	16.4906	16.4611	16.4962	16.5575	16.5945
16.7552	16.5661	16.5054	16.5594	16.5325	16.5923	16.6329
16.4421	15.7090	15.3631	16.4187	16.3869	16.5614	16.6738
16.6429	16.5038	16.3754	16.5739	16.4478	16.4801	16.4382

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	15.6810	┺.	15 9509	16 54 18	15 9441	16.7941	15,8054	15 3021	17 6587	17.5082	15 6019	15 8263	16 7020	13 8201	15 7703	19 8054	16 2460	16 2307	14 3546	15 7374
	15.7872 15.7186	17.2856	15.9041	16.7975	15.9478	17.2477	15.7693	15.3172	17.6428	1 . /	1	ч.		13.8740	15 9180	19 3262	16 7464	16 2497	14.3825	
	15.7872	17,4992	15.8678	16.7926	15.9374	17,2225	15.6299	15.4185	17,6032	17.5916	15,5303	15.8465	16 7588	14.3603	15 9812	19 2977	16.8909	16.1408	14.3211	15,5485
	15.8090	17.2930	15.9108	16,7377	16.3679	17.0753	15.6500	15.4816	17.6066	17.5156	15.5739	15,8572	16.7692	14.3651	16.1256	19.3634	16.8471	16.0318	14.5280	15.6762
	15.8209	17.2902	15,8185	16.6850	15.7210	17.2161	15.4737	15.5433	17.6084	17.4587	15.6076	15.9180	16.6101	14.3777	16.3914	19.4094	17.0866	16.0341	14.4682	15.7728
)	16.4803	17.4073	15.8405	16.5307	15.6188	17.0594	15.3400	15.6062	17.6833	17.3956	15.7417	15.9288	16.5622	14.3789	16.5566	19.2050	17.3159	15.9795	14.5581	15.3176
	16.4664	17,4563	15.8533	16.5823	15.6744	16.8619	15.4112	15.5316	17.6872	17.3692	15.8842	15.9261	16.4859	14.4009	16.5554	19.3380	17.5689	16.0476	14.3691	15.6678
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